

PRELIMINARY ASSESSMENT

of the

PURE OIL COMPANY SITE

located near

EAST KALAMAZOO AVENUE & SOUTH CHEROKEE,
MUSKOGEE COUNTY, OKLAHOMA

January 31, 2005

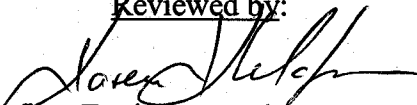
STATE OF OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

Prepared by:



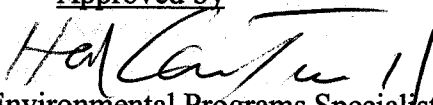
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I. Introduction

The State of Oklahoma Department of Environmental Quality (DEQ) is tasked by the U.S. Environmental Protection Agency (EPA), as authorized by CERCLA and as amended by SARA, under the Multi-Site Cooperative Agreement (CA# V-00645-01) to conduct a preliminary assessment (PA) of The Pure Oil Company site, CERCLIS ID# OK0002024594 (Reference 1). The primary purpose of this PA is to assess the immediate or potential threat of wastes at the site that may impact public health and the environment and to collect information sufficient to support a decision regarding the need for further action under CERCLA/SARA. The scope of this investigation includes the review of available information from DEQ and other state agencies' files, a comprehensive target survey, and an on-site reconnaissance.

II. Site Description, Operational History and Waste Characteristics

Site Description

The area identified as The Pure Oil Company site is bounded by the north by East Kalamazoo Avenue, to the south by Coody Creek, 400 feet east of South Cherokee, and 14 acres to the west of Main Street. The boundaries of the 62-acre site were determined by Sanborn maps, deed records, and aerial photos (References 2, 3, 4; Figures 2-6). The site's center has the coordinates of 35° 43'89.12" north latitude and 95° 22'28.02" west longitude (References 5 & 6).

Muskogee County is hot in summer and cool in winter. The average summer temperature is 80° F, and the average winter temperature is 41° F. The average daily minimum temperature is 31° F, and the average daily maximum temperature is 92° F. The climate is neither excessively wet nor dry. The total annual precipitation is 41 inches (Reference 7). The normal annual precipitation for the site is 41.7 inches (Reference 8), and the 2-year 24-hour rainfall is approximately four inches (Reference 9).

The 62-acre site is located in the NE/4 Section 34 and NW/4 Section 35, Township 15 North, Range 18 East (Reference 5). There are five residents on the site, which would all be considered nearest residents. There are no schools or daycare centers within 200 feet of the site. The site consists of rural abandoned, farmland, industrial and commercial pursuits, and residences. Site access is not controlled because not all of the properties are fenced. The land is mostly pavement, grasses, or water-loving trees. There are some areas of contaminated soil and stressed vegetation. There is a pond on-site, but did not appear to be used for fishing. There are wetlands on-site (Reference 10). There are six underground storage tanks (USTs) for the site according to the Oklahoma Corporation Commission. The USTs are located at the following: City of Muskogee 1330 S. Cherokee/Fairgrounds, WP Milling Company 1119 S. Cherokee, 7 Express Convenience 2801 S. Cherokee, HR Sheets 1111 S. Main, Quick Stop Kalamazoo & S. Main, and Handy Hut Getty 1103 S. Main (historical) (Reference 11). Land use to the north is residential, to the south is industrial, and to the east and west is both residential and commercial, including agriculture (Reference 10).

Operational History

According to 1912 Sanborn Fire Insurance Maps of Muskogee, Oklahoma, a company named The Pure Oil Company was located in Muskogee at East Kalamazoo Avenue and South Cherokee. The property east of the Missouri, Kansas, and Texas Railroad is approximately 150,000 square feet; the property west of the Missouri, Kansas, and Texas Railroad (MK&T RR) is approximately 930,000 square feet, according to the Sanborn. The map shows from north to south an open water reservoir, a burner, a filtering plant, a cooling tower, a pond, an oil reservoir, fire stills, acid tanks, a barrel yard, and numerous tanks (Reference 2). The Sanborn map depicts properties inside city limits; judging from an aerial photo in 1941, the activity outside of the city limits (west of MK&T RR) can be seen. Six tanks, a former pond, and a former earthen tank berm are shown on the photo just west of the Missouri, Kansas, and Texas Railroad, comprising more than 40 acres (References 3 & 4).

A search of the Muskogee County Clerk record of deeds confirms that The Pure Oil Company was located on two different properties from 1906 to 1956. Inside city limits on September 23, 1904, Muskogee Oil Refinery bought Success Oil & Gas. On June 30, 1909, Muskogee Oil Refinery was bought by Muskogee Refining Company. Before 1921, Oklahoma Producers & Refining Corporation bought Muskogee Refining Company. In July 28, 1924, The Pure Oil Company bought Oklahoma Producers & Refining Corporation. In June 2, 1948, The Pure Oil Company began selling off its property. The property was sold to a materials company, a milling company, a corporation park, and a couple of individuals (Reference 3).

Outside of Muskogee City Limits, The Pure Oil Company leased one acre from the City of Muskogee west of S. Cherokee, southwest of MK&T railroad, and north of Muskogee Refining Company in 1928 (Sec 35). The Pure Oil Company bought the W 1/2 NE 1/4 SE 1/4 E 1/2 NE 1/4 Section 34 in 1937. In 1945, The Pure Oil Company sold lots 1-11 block 67, lots 1-6 block 72, and beginning at the southerly bank of Coody Creek and the east line of 4th Street, 300 feet south of Lincoln, 1320 feet south of the middle SE 1/4 of Section 34, 376 feet east of the middle of SE 1/4 of Section 34, and 900 feet south along Coody Creek to 104 feet west of MK&T railroad (Reference 3).

The Oklahoma County Tax Assessor's Office indicates that the site is now divided among five parties. ANSA owns lots 1-7 of block 67 in the southwest corner, the Land Real Estate Company owns the final 8-11 lots in block 67 and the 40 acres west of S. Cherokee, the City of Muskogee owns lots 1-9 of block 66 in the southeast corner, Muskogee Mills owns the south half of lot 1 and lots 2-6 of block 65 in the northeast corner, Josco LLC owns the final north half of lot 1 of block 65 (Reference 3). Businesses on-site include the following: WP Feeds, ANSA, ANSA Jeldwen Millwork Masters, Muskogee Materials, Optical Machinery, City Junkyard/ Gravel Lay-down Yard, Muskogee County Warehouse #2 & Firestation, Renfro Electric, Automotive Vending, St. Mark Baptist Church, Hutchens Agri Supply, and Applied Medical Professionals (Reference 10). There are no existing complaints regarding the site in the Oklahoma County DEQ files (Reference 12)

Waste Characteristics

The Sanborn map indicated that kerosene, gasoline, crude oil, and acid were all stored on the property by The Pure Oil Company (Reference 2). The wastes assumed to be associated with this type of facility include crude oil, tank residues, brine, heavy metals, and petroleum products. Types of waste seen on the site include metals, asphalt gravel pits, glass debris, piles of sand/wood debris, and foundry waste. Stressed vegetation was evident in the pit and pond areas (Reference 10).

There are several waste pits on-site. The following waste pits were found: asphalt gravel debris (36 x 75 feet), glass debris (30 x 21 feet), sand and wood debris (21 x 30 feet), foundry debris (66 x 30 feet), 28 small piles of foundry waste. Further north, foundry waste piles were found in the following sizes (15 x 120 feet), (9 x 15 feet), and (18 x 15 feet), (33 x 15 feet), (21 x 36 feet), (200 x 27 yards); glass debris (12 x 36 feet) and (66 x 12 feet), and multi-plastic debris (18 x 18 feet). There are lots of old bricks, cement foundation, and railroad ties. In the south part of the site, there is an oil field waste pit (34 x 85 yards) and a waste pit pond (56 x 85 yards). A hydrocarbon odor was detected there. Total area is: 14,466 square yards or 30 square acres (Reference 10).

III. Pathway and Environmental Hazard Assessment

Groundwater

According to the Muskogee County Soil Survey, the specific soil series on The Pure Oil Company site are Stigler-Urban land complex, 0 to 3 percent slopes on the west side of the railway tracks, and Urban land on the east side of the railway tracks. The Stigler-Urban land complex consists of Stigler soil and Urban land on smooth or slightly convex uplands. The Stigler soil is nearly level to very gently sloping and moderately well drained (Reference 7).

Surface gutters and ditches drain most areas of this map unit. Individual areas of this map unit range from 30 to 300 acres and contain 40 to 60 percent Urban land. The Stigler soil and Urban land are so intricately mixed that it is not practical to separate them in mapping.

Typically, the Stigler soil has a surface layer of dark grayish brown silt loam about eight inches thick. The subsurface layer is grayish brown silt loam about ten inches thick. The subsoil extends to a depth of about 62 inches. It is brown silty clay to a depth of 40 inches and coarsely mottled yellowish brown and grayish brown silty clay below that. In about 20 to 30 percent of the area of this map unit, excavating, filling, and grading during construction have radically altered the soils.

The Stigler soil is medium in natural fertility, and the organic matter content is moderate to moderately high. Permeability is very slow, and the available water capacity is high. A perched high water table is at a depth of 2 to 3 feet during winter and spring. The Stigler soil is used for parks, building sites, gardens, trees, and shrubs. It is also used for industry and recreation.

The Urban land part of this map unit is covered by streets, parking lots, and buildings that obscure or alter the soils so that identification is not feasible. Slopes are 0 to 8 percent, and the individual areas are more 40 acres. Including in mapping are soils that are less than 75 percent covered with permanent structures. Areas of these included soils are less than three acres.

Also included with this complex in mapping are small areas of Dennis and Parsons soils. Parsons soils are in positions similar to those of the Stigler soil and are somewhat poorly drained. Dennis soils are on the more convex slopes and are moderately well drained. The included soils make up about 20 percent of the map unit, but areas of these soils are generally less than ten acres (Reference 7).

Muskogee County is located on the northern shelf of the Arkoma Basin. In the county the rock outcrops are mainly of Pennsylvanian sandstone, shale, and coal that were deposited on lowlands and in shallow seas that once covered much of eastern Oklahoma. The Arkoma Basin was formed from the erosion, by streams and rivers, of the Ozark Uplift to the west and the Central Oklahoma arch to the northwest. Out crops in the county generally dip to the west except in places where dip is reversed due to faults and broad folds. The county also has deposits of unconsolidated alluvium laid down by ancient and modern rivers and streams. The Pennsylvanian rocks exposed in Muskogee County are, from oldest to youngest, the Atoka, Hartshorne, McAlester, Savanna, Boggy, Stuart Shale, and Senora Formations. The site is located on the Boggy Formation, which is 450 to 700 feet thick and is composed of layers of sandy shale interbedded with several thin layers of limestone and coal (Reference 13).

Groundwater resources in Muskogee County are found in aquifers within bedrock, alluvial, and river terrace deposits. The groundwater is derived from precipitation falling directly on the area. Most wells in the shale, siltstone, and sandstone yield only a fraction of a gallon per minute to a few gallons per minute. A few wells are reported to yield as much as 20 gpm. The general chemical quality of the water is poor to fair. Of the groundwater sampled 57% contained more than 250 ppm sulfate, 10% contained more than 250 ppm chloride, and 53% contained more than 45 ppm nitrate; two were taken from wells that are apparently polluted.

The majority of groundwater in the Muskogee area is found in unconsolidated alluvium and river terrace deposits. These deposits are reported to yield up to 900 gpm. Most wells are drilled less than 50 feet deep. Groundwater flows east to the river. The closest control well to the site is two miles to the east, it is 42 feet deep and the water depth is 19 feet below the land surface. The site is not in a recharge area for a principle groundwater resource for the State of Oklahoma.

The Arkansas River forms the major drainage feature in Western Muskogee County. The Arkansas is northwest to southeast running river. The river is damned south of Muskogee forming the Webbers Falls Reservoir to the east of Muskogee. The Arkansas River near Muskogee is assigned the following beneficial uses: Emergency Water

Supply, Warm Water Aquatic Community- Fish and Wildlife Propagation, Agriculture-Class I Irrigation, and Primary Body Contact- Recreation. The chemical quality of the water is very hard, with moderate pH, total dissolved solids, chloride, and sulfate levels (Reference 13).

There are no public water wells or wellhead protection areas within the 4-mile radius of the site (Reference 14). There are no municipal wells found within a 4-mile radius of the site. The total population served by municipal wells is described in the table below (Reference 14).

Municipal Wells

Distance from Site (mi)	Number of Wells	Est. Population Served by Municipal Wells
On-site	0	0
0 – ¼	0	0
¼ - ½	0	0
½ - 1	0	0
1 – 2	0	0
2 – 3	0	0
3 – 4	0	0
Total	0	0

The total population served by private wells is described in the table below; the nearest domestic well is located nearly two miles away (References 15 & 16; Figure 1). The numbers were arrived at by multiplying the number of wells by the estimated average number of persons (2.51) per household in Oklahoma County (Reference 17).

Private Wells

Distance from Site (mi)	Number of Wells	Est. Population Served by Private Wells
On-site	0	0
0 – ¼	0	0
¼ - ½	0	0
½ - 1	0	0
1 – 2	1	2.51
2 – 3	4	10.04
3 – 4	6	15.06
Total	11	27.61

The nearest domestic well is considered to be a primary target. There are also ten domestic wells within 2 to 3-mile radius of the site that are considered to be secondary targets for the purpose of this PA.

Surface Water

According to gauging station #07194500 located in the NW¼ Section 21, Township 15N, Range 19E in Muskogee County, the average annual flow rate of the Arkansas River is 21600 cfs (Reference 18). The normal annual precipitation for the site is 41.7 inches. May is the wettest month, and December or January is usually the driest. The estimated average yearly runoff is 11 inches (Reference 8).

The surface water pathway is the drainage ditch alongside the railway, and in some places, drainage flows directly into the stream. The probable point of entry (PPE) occurs at the south end of the site where the drainage ditch meets the perennial stream. The PPE is located in the in NE/4 Section 34, Township 15N, Range 18E, Muskogee County, within a stream known as Coody Creek. Coody Creek meets the Arkansas River in the NE/4 Section 34, Township 15N, Range 19E, Muskogee County, approximately ten miles downstream from the PPE. The 15-mile target distance ends within SW/4 Section 13, Township 14N, Range 19E of the same county in Arkansas River (References 5 & 10).

The normal annual precipitation for the site is 41.7 inches (Reference 8), and the 2-year 24-hour rainfall is approximately four inches (Reference 9). The site is located inside the 100-year flood plain (Reference 19). There are no drinking water intakes associated with the surface water pathway (Reference 20).

There are ecological systems of importance within a 4-mile radius of the site (Reference 21). There is a pond that could be used for fishing on-site (Reference 10). Habitats of the endangered, threatened, and species of special concern below are known to occur at or near the site (Reference 21).

Endangered, Threatened, and Species of Special Concern

Species	Classification
American burying beetle	Endangered, confirmed sightings
Interior least tern	Endangered
Whooping Crane	Endangered
Bald Eagle	Threatened
Piping Plover	Threatened
Alligator Snapping Turtle	Species of Special Concern, II*
River Otter	Species of Special Concern, II*
Arkansas River Shiner	Threatened
Woodchuck	Species of Special Concern, II*
Golden Eagle	Species of Special Concern, I*

*I – A species that current evidence indicates is especially vulnerable to extirpation because of limited range, low population, or other factors.

*II – A species identified by technical experts as possibly threatened or vulnerable to extirpation but for which additional information is needed.

All targets under the surface water pathway are considered secondary.

Soil Exposure

There are five residents on the site, which would all be considered nearest residents, and there are 3,105 residents within the 1-mile radius of the site (References 10 & 14). There are 12 businesses on-site. It was estimated that there are 37 employees on-site. There are no schools or daycare centers within 200 feet of the site (Reference 10).

Visible waste was seen on the site, approximately 30 square acres (Reference 10). All five residents on site are primary targets for the purpose of this PA. All other targets under the soil exposure pathway are considered secondary.

Air

A particulate release to the air is suspected from any contaminated source, which maybe on-site, but no release was observed during site reconnaissance. A hydrocarbon odor was detected when the visible waste was found on the south part of the site (Reference 10). The estimated population and the wetland acreage within a 4-mile radius of the site are described in the table below (References 10, 14, & 22).

Distance from Site (mi)	Est. Population	Est. Wetland Acreage
On-site	5	1.5
0 – ¼	53	5
¼ - ½	739	5
½ - 1	2,313	35
1 – 2	18,249	75
2 – 3	11,946	285
3 – 4	5,895	345
Total	39,195	752.5

The population targets on-site and within the 1/4-mile radius under this pathway are considered to be primary. All other targets under the air pathway are considered to be secondary targets for the purpose of this PA.

IV. Summary and Conclusions

The Pure Oil Company site is a historical refinery near East Kalamazoo and South Cherokee in Muskogee, OK. The Pure Oil Company owned the property from 1906 to 1956. The site is now divided among five parties, ANSA, Yaffe Land Real Estate Company, The City of Muskogee, Muskogee Mills, and Josco LLC. Subsequent activities at The Pure Oil Company Site could serve as a source for contamination. The nearest well is approximately 2-miles away, and considered to be a primary target. The total area of contaminated soil is estimated at approximately 30 square acres; metals, asphalt gravel pits, oil field waste pit, waste pit pond, glass debris, piles of sand/wood debris, and foundry waste. All five residents on site are primary targets. The overland

flow is towards Coody Creek. Habitats of the endangered and threatened species listed are known to occur at or near the site. There is a pond and wetlands on-site. All of these targets are considered secondary for the purpose of this PA. There is a possibility that contaminants could migrate from the areas of contaminated soils into the pond, creek, and wetlands. As a result of the information gathered during this preliminary assessment, further investigation of this site is recommended.

V. Figures

Figure 1

Site Vicinity Map

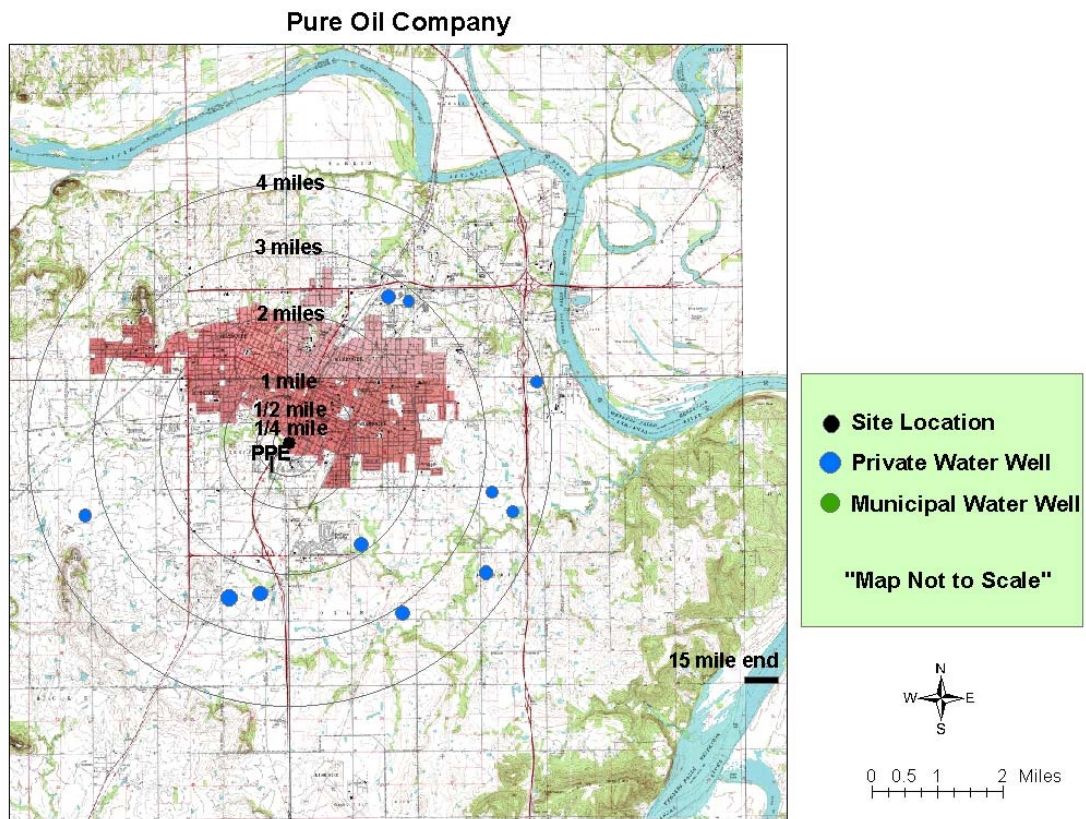
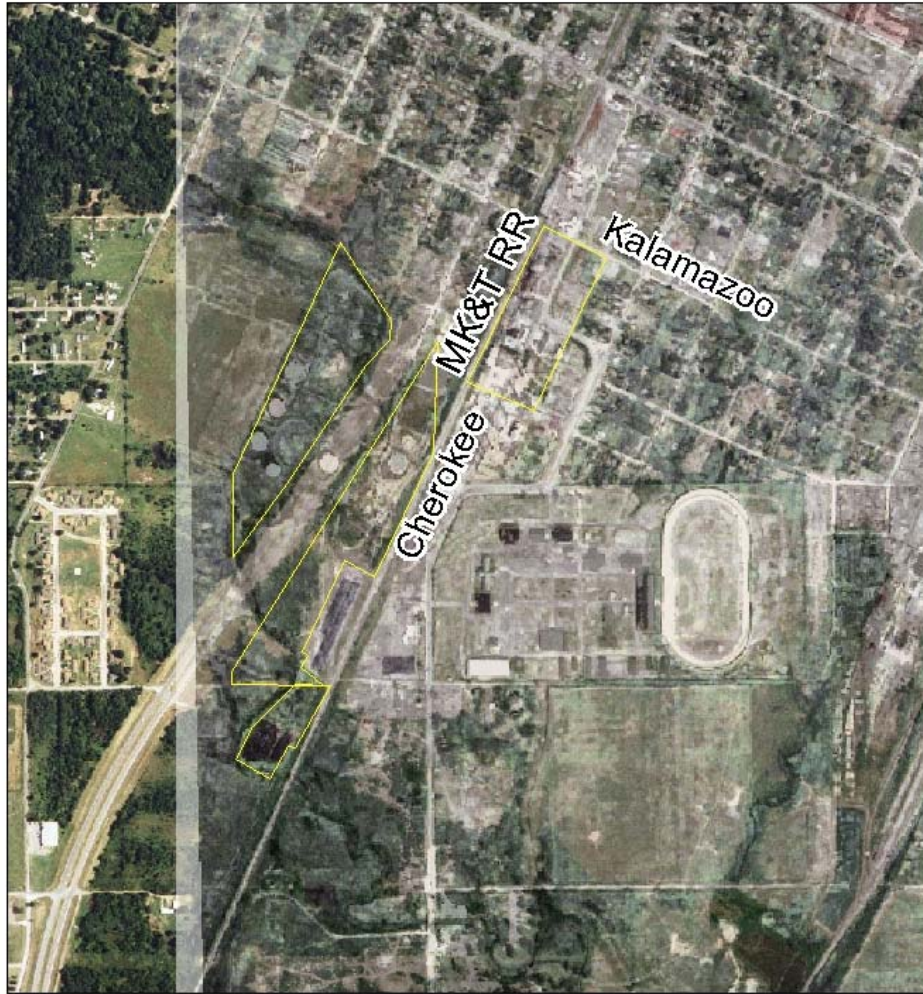


Figure 2

Site Location Map: Pure Oil Company Site, 1941 to 2003 Comparison



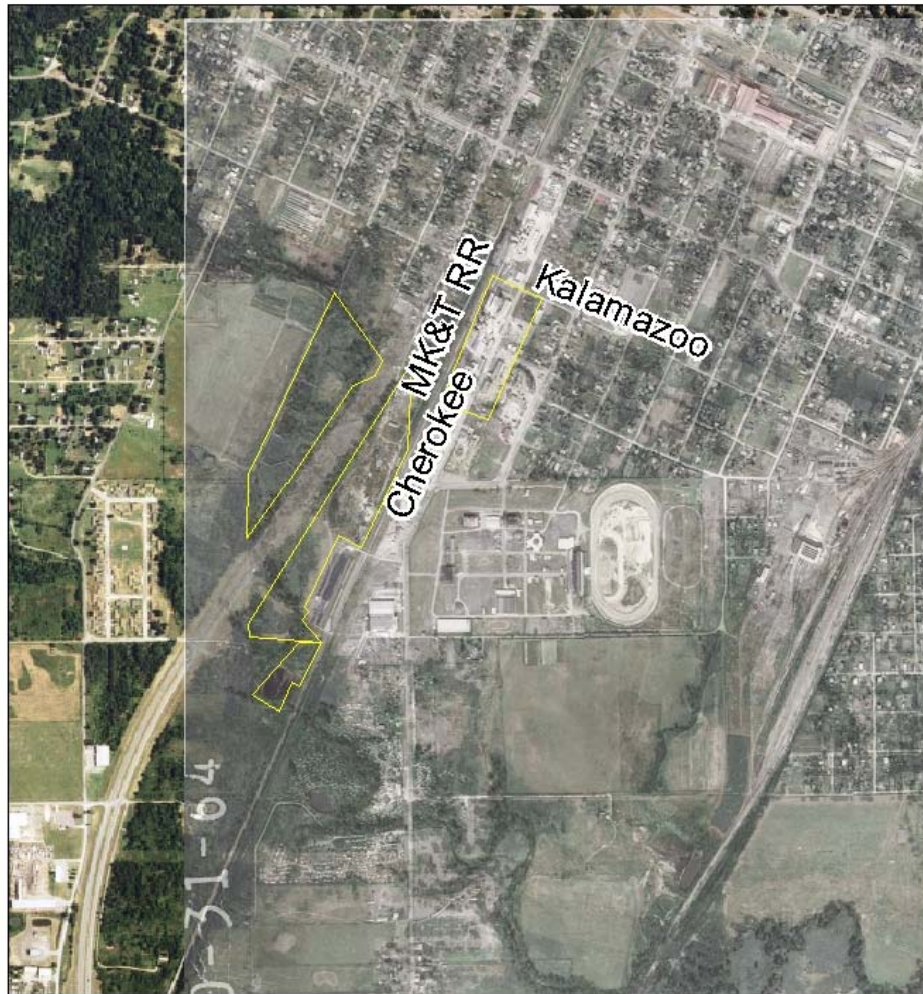
1941 over 2003 Aerial



= Site Boundry

Figure 3

Site Location Map: Pure Oil Company Site, 1964 to 2003 Comparison

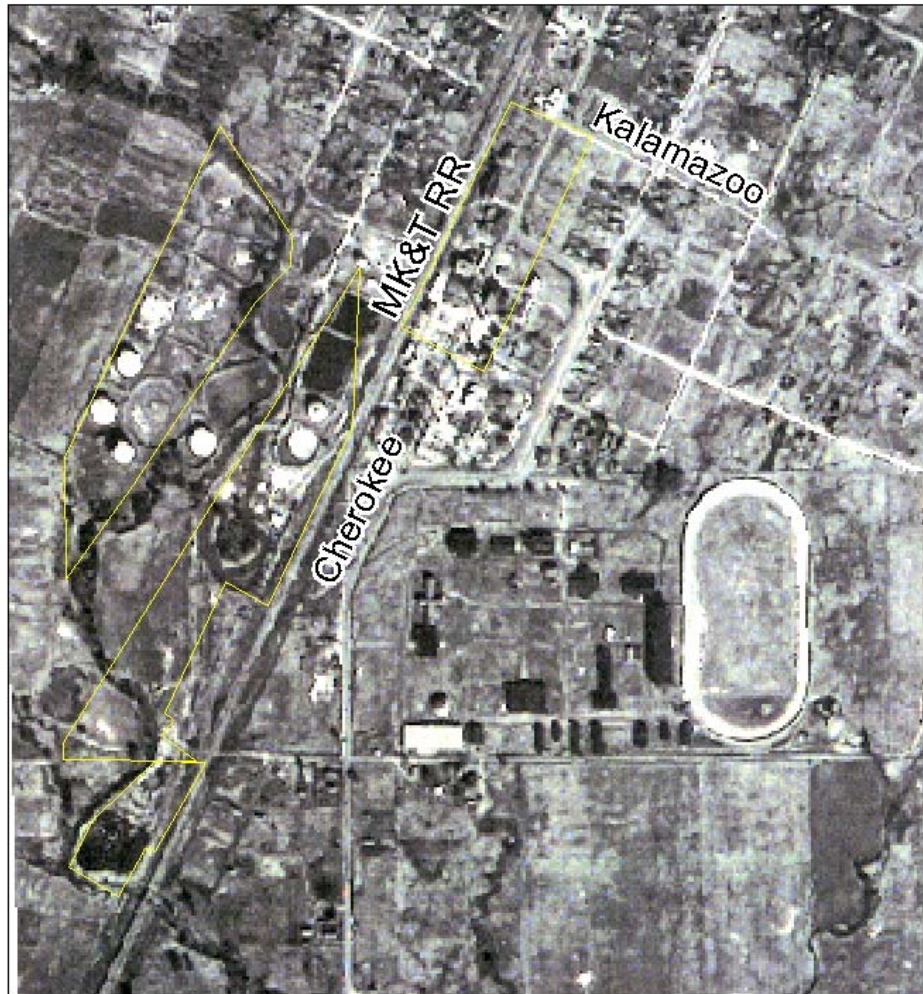


1964 over 2003 Aerial

 = Site Boundry

Figure 4

Site Location Map: Pure Oil Company Site, 1941

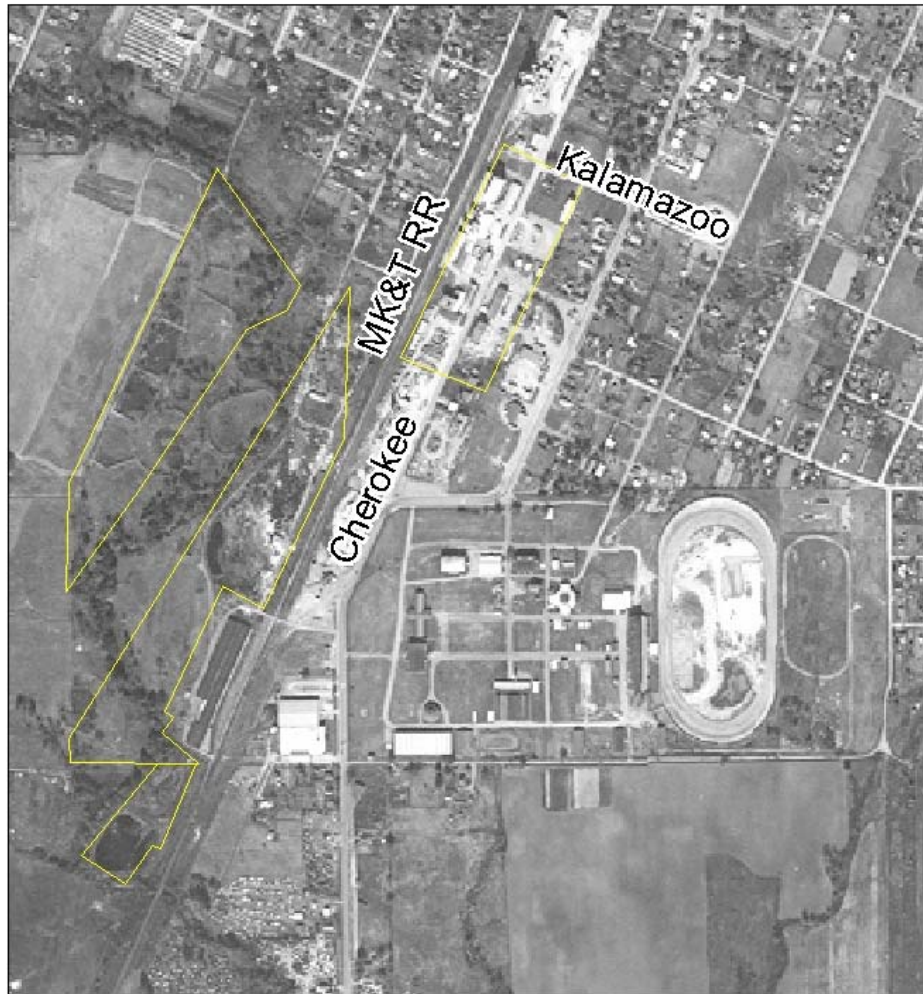


1941 Aerial Map

 = Site Boundry

Figure 5

Site Location Map: Pure Oil Company Site, 1964



1964 Aerial Map

 = Site Boundry

Figure 6

Site Location Map: Pure Oil Company Site, 2003



2003 Aerial Map

 = Site Boundry

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VII. References

Reference 1



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Site Name: THE PURE OIL COMPANY

Street: 2ND STREET/KALAMAZOO AVENUE

City / State / ZIP: MUSKOGEE, OK 74401

NPL Status: Not on the NPL

Non-NPL Status: NFRAP

EPA ID: OK0002024594

EPA Region: 06

County: MUSKOGEE

Federal Facility Flag: Not a Federal Facility

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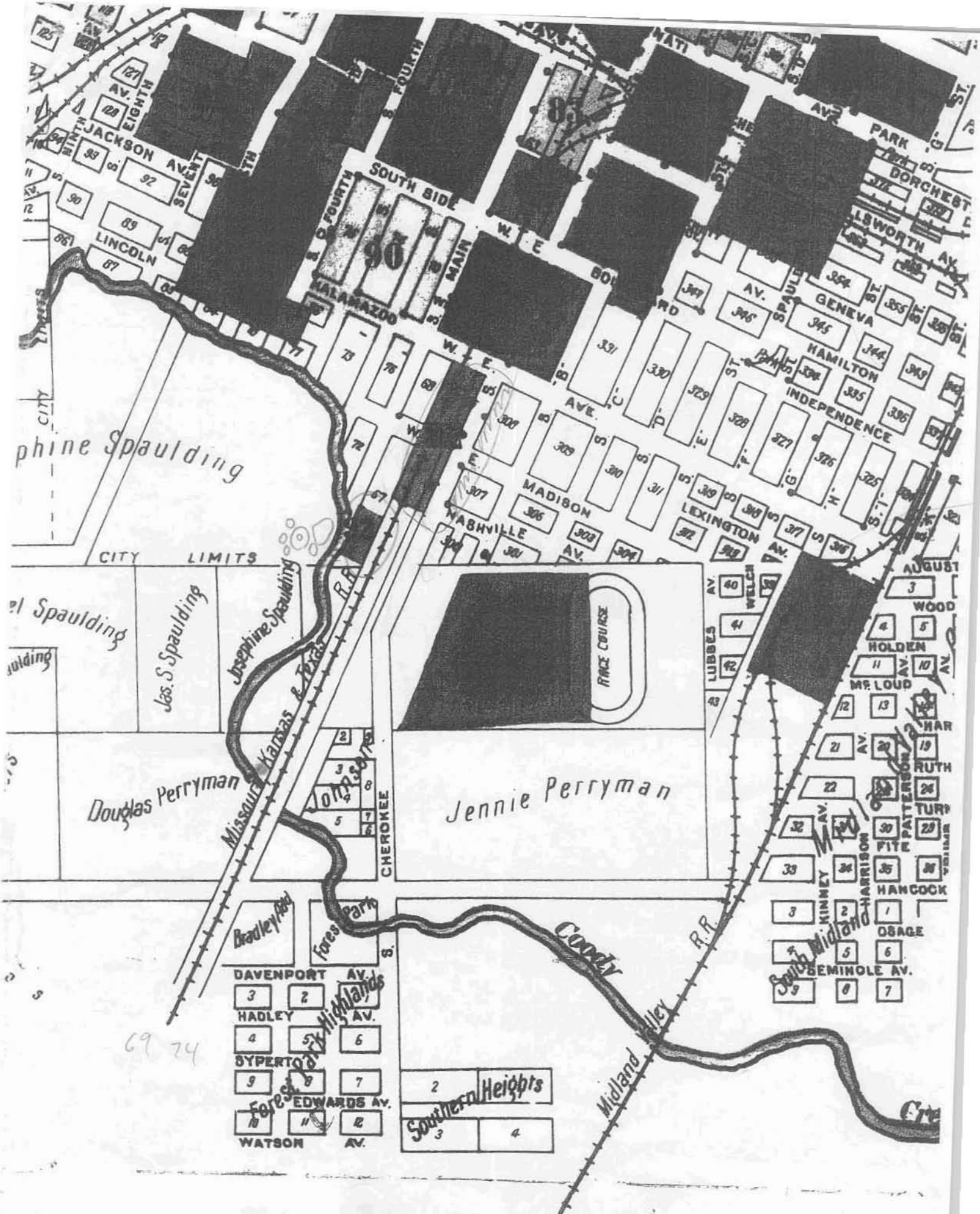
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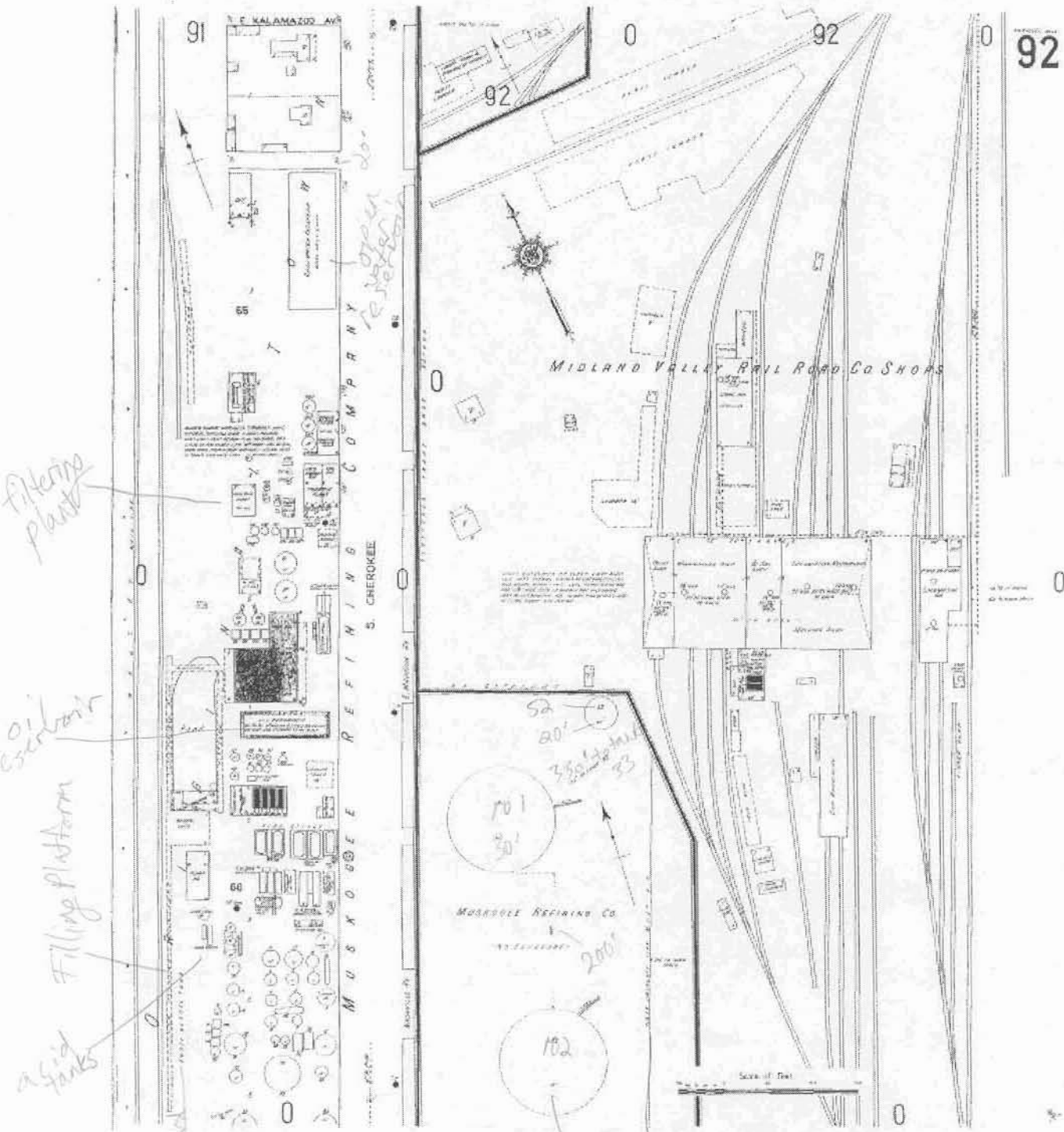
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Reference 2

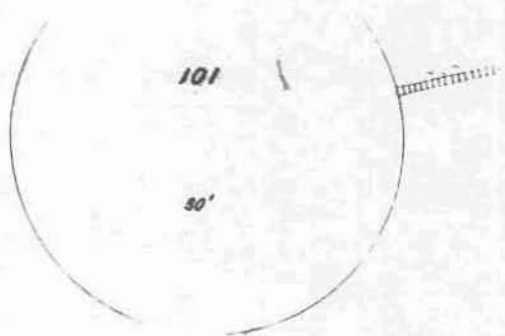


1912

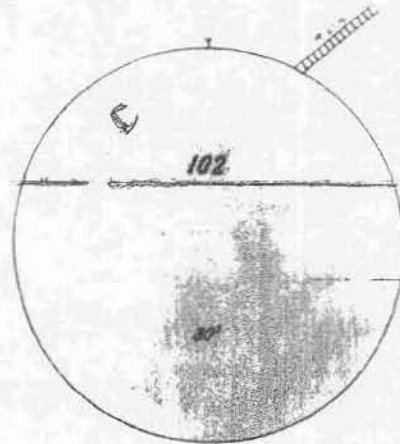


E. MADISON

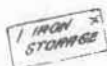
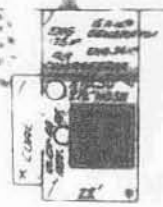
NASHVILLE RV



MUSKOGEE REFINING CO

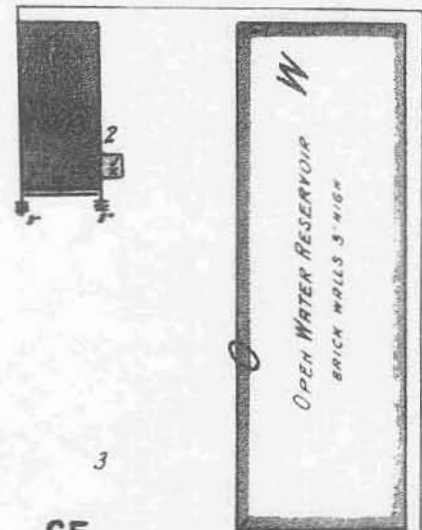
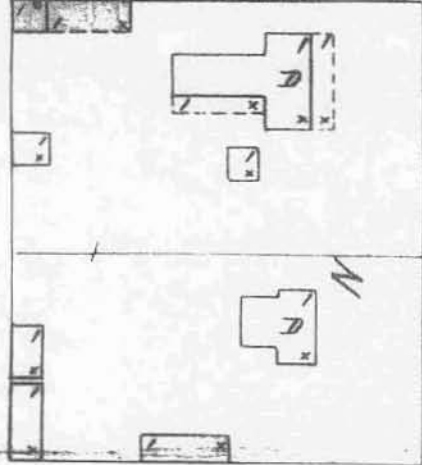


WEST PROPERTY LINE - MK&T RR



91

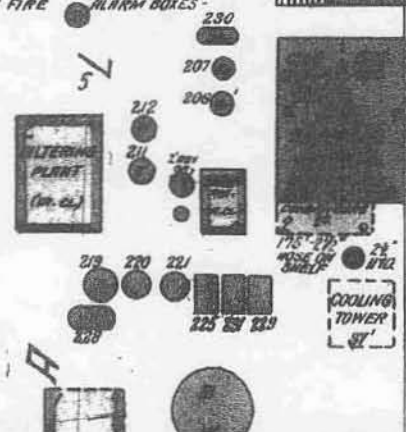
80 E. KALAMAZOO AV. 80



65

PLATFORM

NIGHT & SUNDAY WATCHMAN - 1 STATIONS - HANZ
IMPERIAL PORTABLE CLOCK. HOURLY ROUNDS
LIGHT - ELEC. - HEAT - STEAM - FUEL - NATURAL GAS -
2 HYDS. ON PREMISES & 325' 2 1/2" HOSE - TWO 40 GAL.
CHEM. ENGS. CHEM. EXTING. DISTRIBUTED - STEAM JETS
IN TANKS - 4 PRIVATE FIRE ALARM BOXES



G O M P H N Y

OKEE

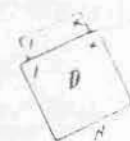
92

CARRP WORK & STORAGE OF LUMBER

VERTY LUMBER

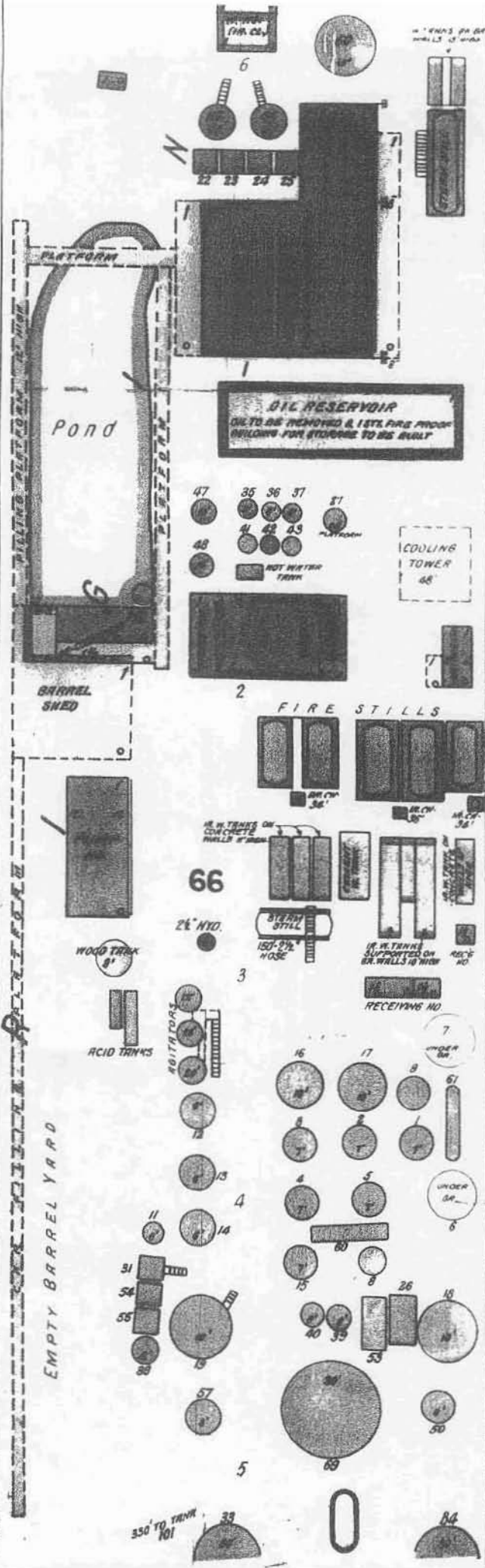


SCATTERED FRAME DWGS BEYOND



1912

M. K. & T. R. R.



M U S K O G E E R E F I N I S C H E P

70' 6\"/>

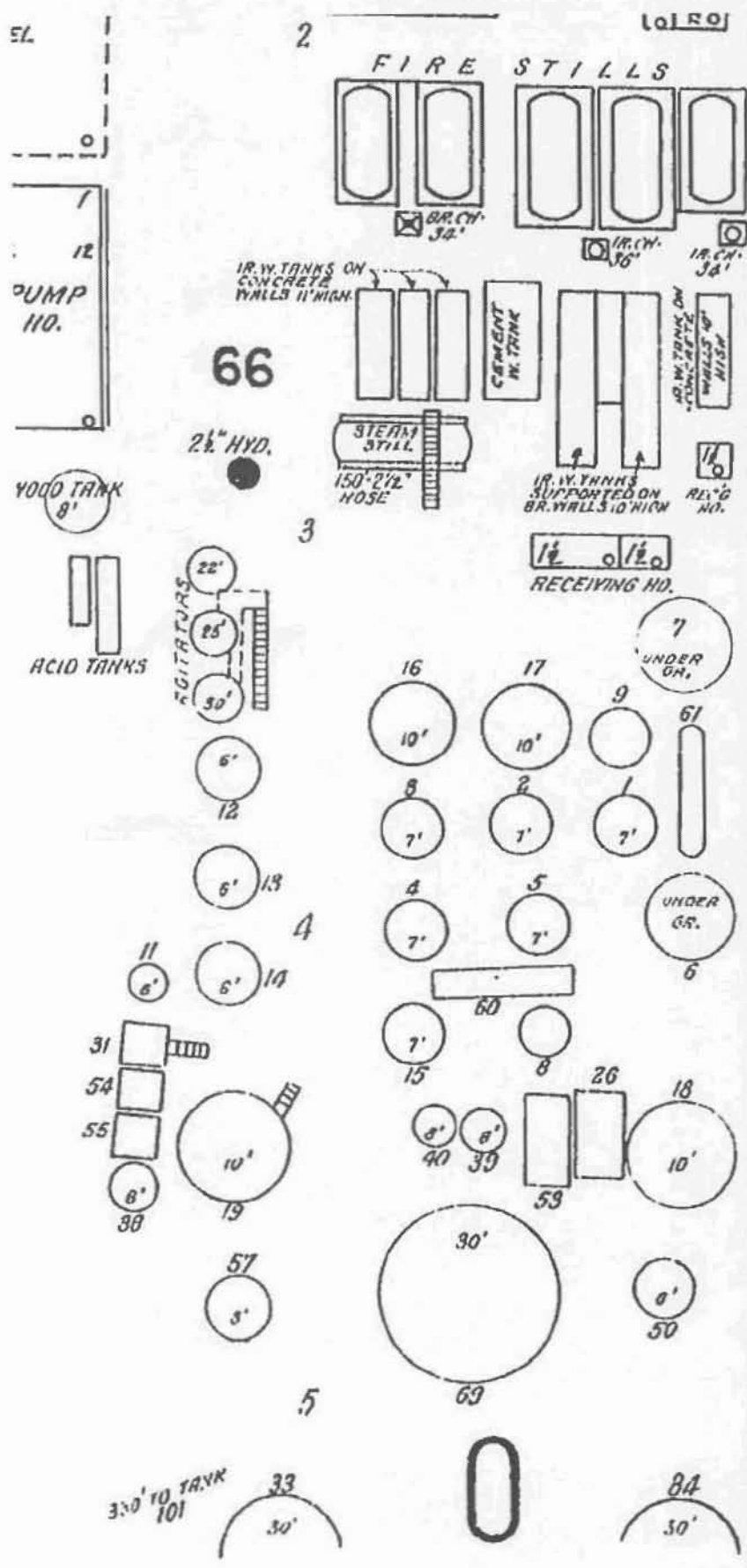
NASHVILLE HV. E MADISON HV.

MUSKOGEE REF

101
80'

16

1912

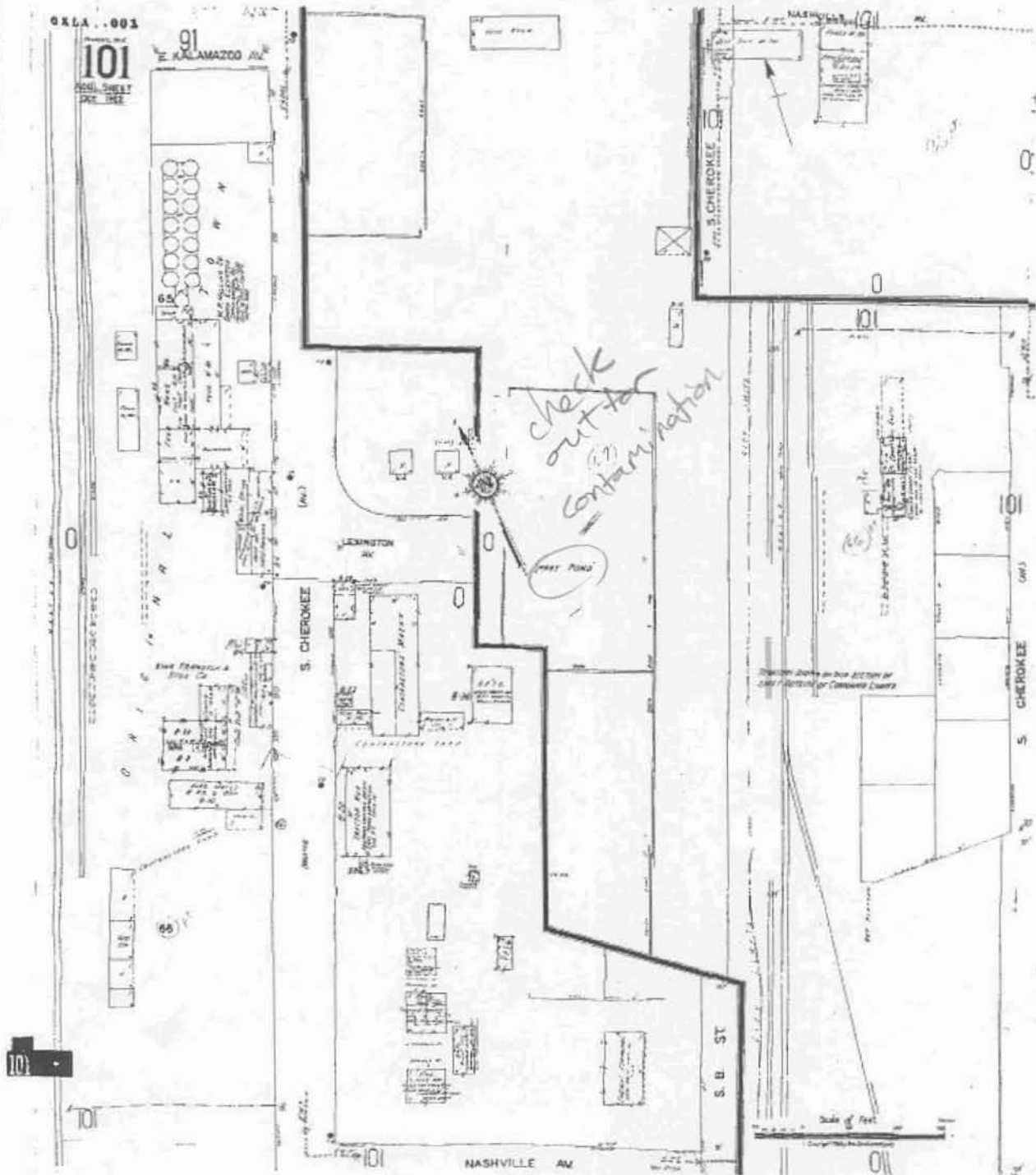


MUSKOGEE

NASHVILLE, TN

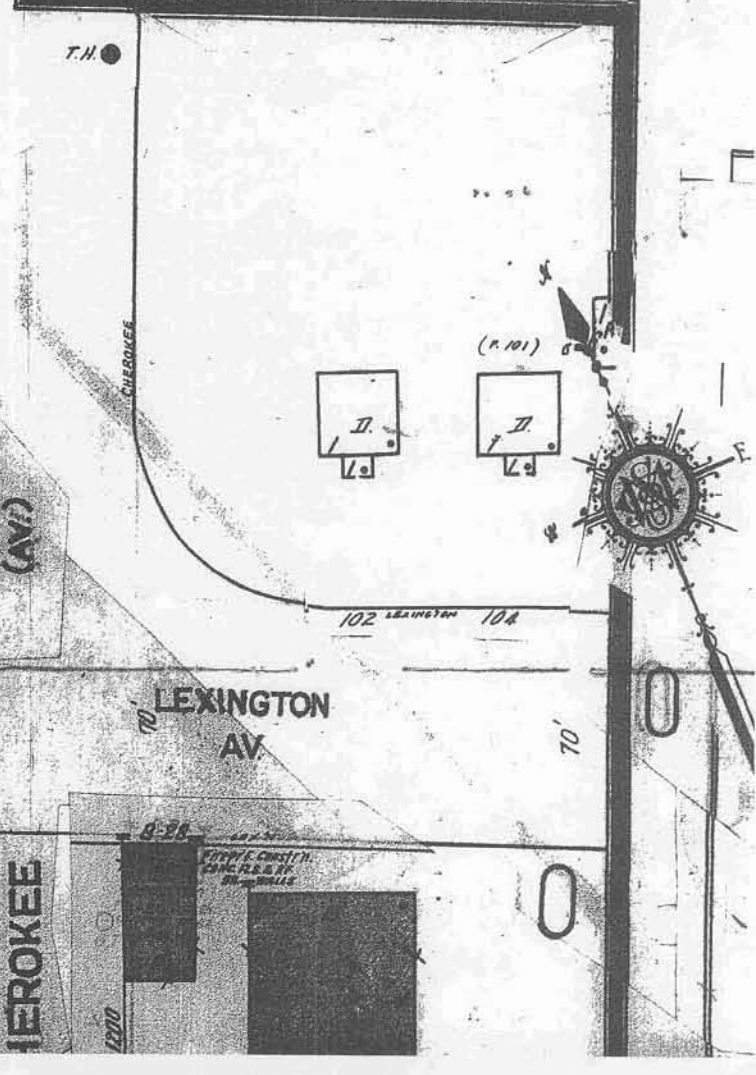
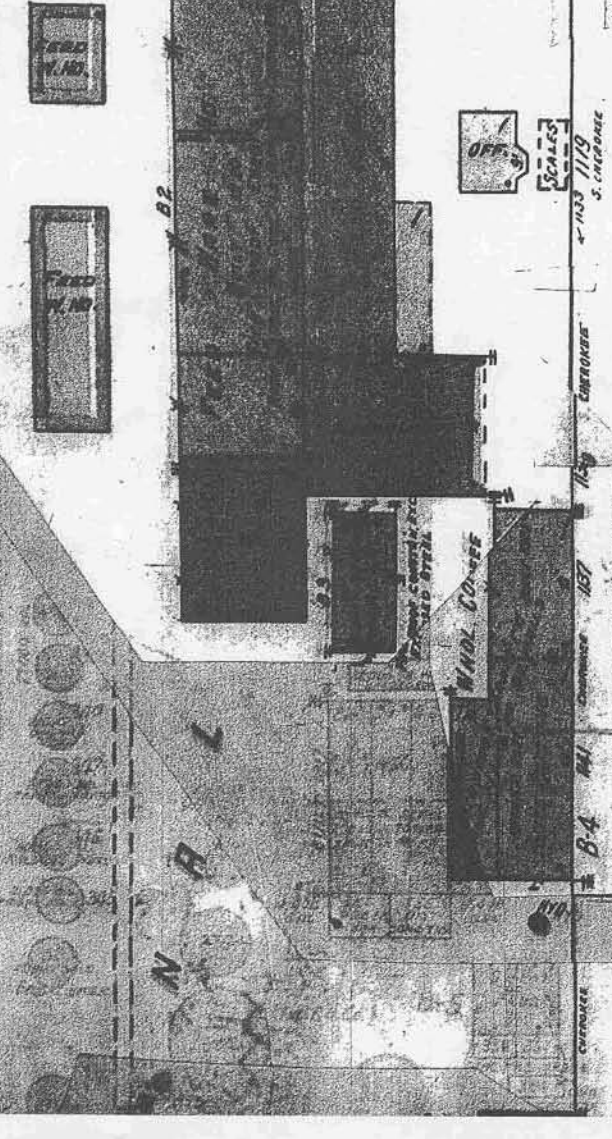
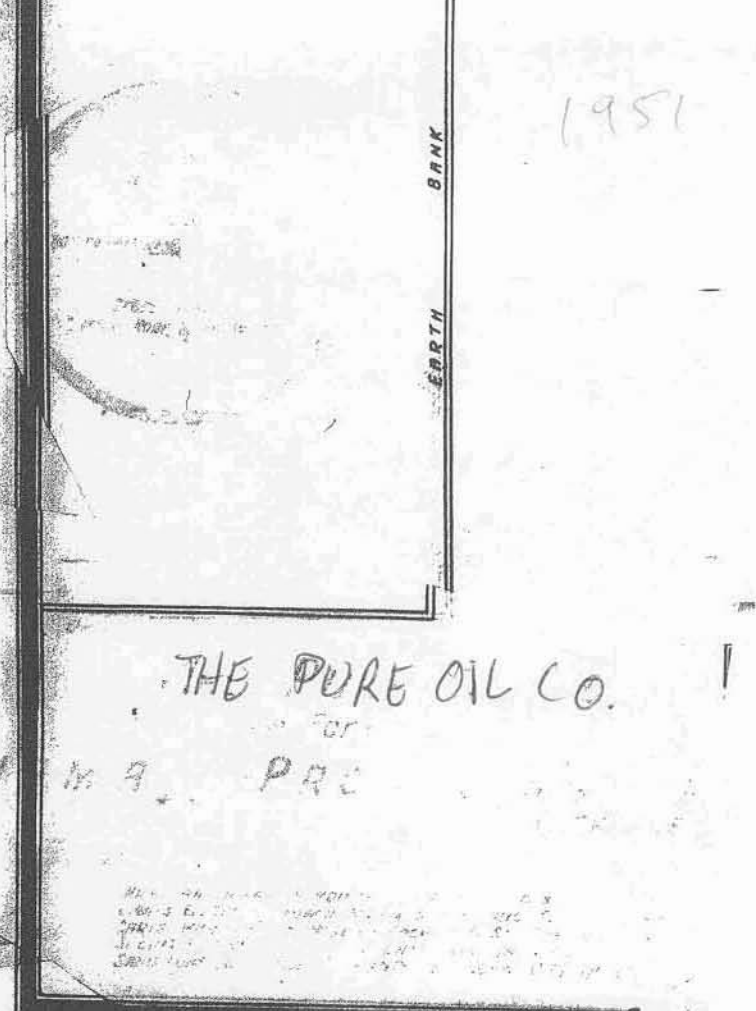
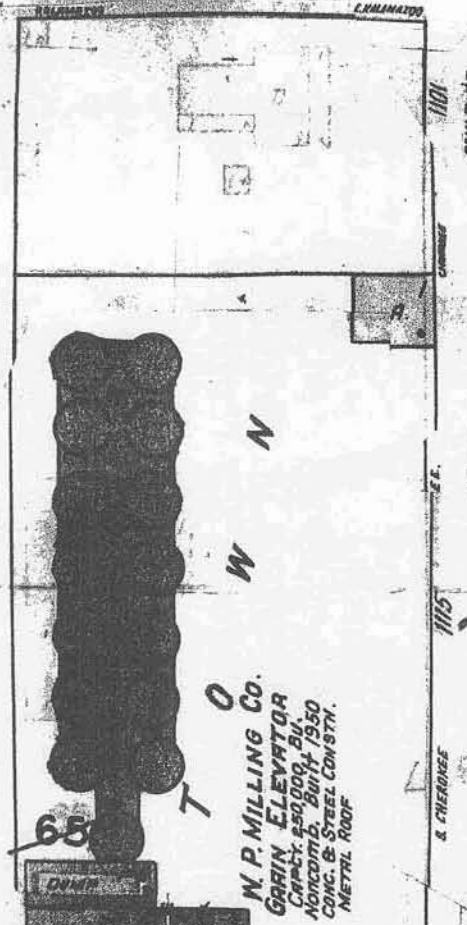
6" W. PIPE
7/8"

F.H.



$$400ft \times 900ft = 360,000 \text{ sqft} = 8.26 \text{ sqyd}$$

1951



SPRAY POND

BANK

3' HIGH

3'

BANK

EARTH

3' H

3'

BANK

EARTH

(TK 27)

CONC. WALL 4'

70'

B. ST.

CITY LIMITS

100'

TERRITORY SHOWN ON THIS SECTION OF SHEET OUTSIDE OF CORPORATE LIMITS

M. K. & T. R.

66 ft

EA CONVEYER TO 345

1951

CONCRETE

WELLS 4'

NOT PLATTED

CONC. WALL 6'

STGE CO.

TURNER STEEL CO.
1205
1207
1209

B-23

B-36

WIRE ROPE
B.I. NO.

MACHY & A.
CONC. PL.

CONTRACTOR'S YARD

1951

EH.

B-22

B-21

SAND STEEL
CONSTRUCTION

VAC.

CONSTRUCTION

CONTRACTOR'S YARD

R. 1211
5 CHARONNE

STEEL PL.

(INCORPORATED)

66 pt.

A.

AUTO
REP.

A.

NO. 21
CONC. PL.

CHARONNE ST.
NASHVILLE KY.

CONSTRUCTION

CHARONNE ST.

NASHVILLE KY.

CONSTRUCTION

B.

6 W.P.

6 W.P.

NASHVILLE

AV.

NASHVILLE

подпись: Б. Н. Р.

74 ~~ONE~~ TILE W. HO.

PARTS IN H

PRIV GARAGE

V2 OFF 2nd

Euphorbia Cass.

SUTHERLAND
AT RICHMOND

U.S. CUSTOMER SERVICE

S. CHEROKEE

5

04

B-15

D.

106

CITY _____ - LIMITS _____

K. & T. R. R. MAIN TRACK

1000

FACTS

SAND & GRAVEL PIANT

NY 5916

67

Reference 3

MEMORANDUM

December 6, 2004

From: Aron Samwel

To: Muskogee Oil SI file

Re: PRP Muskogee Oil site (T15N R18E S34-35) **Block 65 Lots 1-6, Block 66 Lots 1-9 Block 67 Lots 1-11 & SE 1/4 (inside city-limits) & NE 1/4 Sec 34 (outside city-limits)**

The following **inside the city-limit** parties were found in the Muskogee County Courthouse deed records and tax assessor office on November 1, 2004 by Aron Samwel.

Book 25 p. 529

Success Oil & Gas -> Musk. Oil Refining Co.
Lot 2-4 Blk 66
September 23, 1904

Book 106 p. 528

Frank Timmis -> Muskogee Oil Refining Co.
Lot 1-4 Blk 66
December 27, 1905

Book 50 p. 271

Success Oil & Gas -> Musk. Oil Refining Co.
Lots 2-6 Blk 65
April 26, 1906

Book 49 p. 204

John R. Shaw -> Musk. Oil Refining Co.
Lots 2-6 Blk 65
April 21, 1906

Book 124 p. 207

Creek Realty Co -> Muskogee Oil Refining Co.
Lot 5 Blk 66
August 20, 1907

Book 155 p. 121

Muskogee Oil Ref. Co. -> Musk. Refining Co.
Lots 1-5 Blk 66
June 30, 1909

Book 155 p. 121

Musk. Oil Ref. Co. -> Musk. Refining Co.

Lot 2-6 Blk 65, lot 1-5 Blk 66, *lot 11 Blk 2, lot 2 Blk 1*

June 30, 1909

Book 286 p. 302

Spraulding, Josie -> Muskogee Refining Co.

Lots 6-9 Blk 67

May 21, 1910

Book 284 p. 30

English, Bessie -> Muskogee Refining Co.

Lot 6 Blk 66

March 25, 1915

Book 271 p. 208

Creek Realty Co. -> Muskogee Refining Co.

Lot 6-9 Blk 66

March 31, 1915

Book 286 p. 301

Howard, Lelia -> Muskogee Refining Co.

Lot 11 Blk 67

November 20, 1915

Book 304 p. 547

Spraulding, Josie -> Muskogee Refining Co.

Lots 1-5 Blk 67

March 20, 1917

Book 334 p. 453

Musk. Ref. Co. -> Okla. Produc. & Refg. Corp.

Lots 1-11 Blk 67

Book 271 p. 208

Muskogee Refining Co. -> Okla. Produc. & Refg. Corp.

Lots 6-9 Blk 66

Book 512 p. 186 need book 512 p. 185

Okla. Prod. & Refng. -> Pure Oil Co.

E ½ NE ¼ SE ¼ Sec 34 T15N R18E lying immediately West of the Missouri Kansas & Texas Right of Way, 7 acres (same as Spaulding to OPRC on June 2, 1924) book 390 page 478

North 50 ft of the south 100 ft of *lot 5 Blk 307*

North 90 ft of lot 5 Blk 307

Lots W- Z Blk 300

Lots 8-12 Blk 308

July 28, 1924

Book 535 p. 385

Elliott -> Pure Oil Company

Lot 3 Blk 67

Book 543 p. 99

March, John -> Pure Oil Co.

South 10 ft of lot D, north 40 ft of lot E, *lots 1-4 Blk 300*, lot 1 Blk 67

September 30, 1926

Book 544 p. 226

Brophy, L.W. -> Pure Oil Co.

Lot 2&4 Blk 67

October 19, 1926

Book 544 p. 346

Lange, A.A. -> Pure Oil Co.

Lot 5 Blk 67

October 18, 1926

Book 649 p. 438

Stewart, J.R. -> Pure Oil Co.

South 70 ft. lot 1 Blk 65

January 20, 1932

Book 804 p. 161

Pure Oil Co. -> Frix, Carl

Lots 8-12 Blk 308, South of 70 ft of lot 1, lots 2-6 Blk 65, lot 1-9 Blk 66, *lot 1-8 Blk 307*, *all lots of 300*, northline of Nashville to a line 130 feet northerly of north line of Madison Avenue from the east line of Cherokee Street, and all of the alley through *Blk 307* except the east 30 feet

June 2, 1948

Book 848 p. 276

Pure Oil Co. -> Jergins, R.L.

Lots 1-10 Blk 67

Book 1050 p. 386

Pure Oil Co. -> Muskogee Materials Co.

North boundary line of Cherokee St and Nashville Ave southerly to the north boundary of the public road extending to the Fair Grounds

April 13, 1956

Book 1337 p. 342

Jones, Preston & Dorothy & Huckin, Mary-> W.P. Milling Co.
North 9.4 lot 1 Blk 66, lot 6 Blk 65,
May 23, 1972

Book 2386 p. 123
Muskogee Materials Co. -> Chandler Materials Co.
Southerly 90.6 ft of lot 1, lots 2-9 Blk 66
April 30, 1996

Book 2394 p. 003
Chandler Materials Co. -> City of Muskogee
90.6 ft of lot 1, lots 2-9 Blk 66
June 11, 1996

Book 2136 p. 368
Verd-Ark-Ca Development Corporation Park -> Madison Street Partnership
Lot 1-7 Blk 67
March 26, 1992

Book 2998 p. 232
W.P. Milling Co. -> Muskogee Mills, Inc
South 70 ft of lot 2-6 Blk 65
North 40 ft of vacated Madison Ave and adjacent vacated part of Cherokee St
August 27, 2002

Book 2998 p. 233
W.P. Milling Co. -> Muskogee Mills, Inc
North 49.4 ft of lot 1 Blk 66
Including south 40 ft of vacated Madison Ave and adjacent vacated part of Cherokee St
August 27, 2002

The Oklahoma County Tax Assessor's Office indicates that the site is now divided among 5 parties. ANSA owns lots 1-7 of block 67 in the southwest corner, the Land Real Estate Company owns the final 8-11 lots in block 67, the City of Muskogee owns lots 1-9 of block 66 in the southeast corner, Muskogee Mills owns the south half of lot 1 and lots 2-6 of block 65 in the northeast corner, Josco LLC owns the final north half of lot 1 of block 65.

The following **outside the city-limit** parties were found in the Muskogee County Courthouse deed records on December 3, 2004 by Aron Samwel.

Book 698 p. 155
Stanolind Pipe Line Co. -> Pure Transportation Co.
Right of Way NE $\frac{1}{2}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$ 34-15N-18E
December 28, 1935

Book 684 p. 497

Pure Oil Pipe Line Co. -> Pure Transportation Co.

Right of Way "A"

November 27, 1934

Book 1402 p. 33

Yaffe Iron Metal -> McOil

O&G Lease "A"

September 3, 1975

Book 1376 p. 238

McOil -> Patterson

O&G Lease SE/4 SW/4 34, S/2 Lot 4, 5-6 Johnson Addition 34, 2 acres near MK&T, lot 13-14 Blk25 34

June 1, 1985

Book 1801 p. 342

McOil. -> Patterson

O&G Lease "A" + wells, casing, tubing, fittings, rods, tanks, separators, pumping equipment, flow lines, salt water disposal facilities

1985

Book 712 p. 95

Bebb -> Pure Oil Co.

W 1/2 NE 1/4 SE 1/4 E 1/2 NE 1/4 34

March 29, 1937

Book 848 p. 276

Pure Oil Co. -> Juergens & Matthews

"A" = Lots 1-11 67 Lots 1-6 72, southerly bank of Coody East line of 4th St, 300 ft S of Lincoln, S of middle SE 1/4 34 1320 ft, E of middle SE 1/4 34 376 ft, along Coody 900 ft S to 104 ft W of MK&T . . .

December 27, 1945

Book 584 p. 469-70

City of Muskogee -> Oklahoma Engineering and Foundry Company -> Muskogee Iron Works (machine shops, brass & cast iron foundries) -> Pure Oil Co.

Lease 100 years west Cherokee, SW MK&T, north Muskogee Refining Company NW 1/4 SW 1/4 35 T15N R18E, 1 acre

August 13, 1928

Book 1167 p. 336

Richerson -> Skelly Oil Co.

Lease Release E 1/2 NE1/4 SE1/4 34 East of MK&T Railway (1617 S Cherokee)

January 17, 1961

Book 1714 p. 232

Yaffe Iron & Metal -> Land Real Estate Corp.

"A" minus Lots 1-11 67 Lots 1-6 72?

December 27, 1983

Book 947 p. 408

William Yaffe -> Joseph Yaffe

"A" + West 65 ft Lot 5-6 Blk 4

August 12, 1950

Book 2632 p. 407

Yaffe Iron & Metal -> Record Owners

NE/4 SE/4 34, E along westerly line of MK&T 723.5 ft, NW at right angles to westerly line 200 ft, SW parallel w/ westerly line of MK&T 563.5 then SW along a line that is at right angles 40 ft, SW line of MK&T 60 ft, SE 130.6 ft to 76 ft NW from beginning, SE for 76

April 27, 1999

The Oklahoma County Tax Assessor's Office indicates that the Land Real Estate Company owns all of the site west of South Cherokee outside the city-limits, except for the ANSA building.

Know All Men By These Presents,
That the Creek Realty Company
(Incorporated) of Muskogee, Indian
Territory, for the consideration of
thirteen hundred and fifty
Dollars, to it duly paid by Muskogee
Oil Refining Company, (the
receipt of which is hereby acknow-
ledged), does hereby grant, bargain,
sell and convey unto the said
Muskogee Oil Refining Company

the following described real
estate lying and being situated
in the City of Muskogee, Indian
Territory, to wit: Lots numbered
Two, Three & Four in Block
numbered 66 according to
the official map and plat
of the Townsite Commission
of the Town of Muskogee, Ind.
Terr., and approved by the
Secretary of the Interior June
4th, 1900.

To Have And To Hold unto
the said grantee, his heirs
and assigns forever. And
the said grantor does hereby
covenant with the said
grantee that at the executing
of these presents, the pre-
mises above described are
free from all encumbrances
and that the said Creek Realty
Company will warrant and
defend the title thereto to
the said grantee, his heirs
and assigns against
the lawful claims of all
persons whomsoever.

In Witness Whereof,

the said master has herewith
set its seal and caused
there presents to be signed
by its President and attested
by its Secretary, this, the 17th,
day of September A. D. 1904.

(Seal
Creek Co.)

Creek Realty Company
By Frederick B. Severus
President.

Attest: A. G. English,
Secretary.

United States of America,
Indian Territory,
Western District ss.

Before me, Ivo Miller,
a Notary Public, in and for
said District and Territory,
this day came the Creek Realty
Company by Frederick B. Severus, its
President, and A. G. English, its Secre-
tary, who are personally known
to me to be the same persons
whose names are subscribed
to the within Deed as having
executed the same, and with
them and there, for and on behalf
of said Creek Realty Company, ac-
knowledged the within Deed to
have been executed for the con-
sideration and purposes therein
set forth as the free and vol-
untary act and deed of said Company.

(Seal
WNT
Creek)

I, Witness whereof I have here-
unto set my hand and affixed
my official seal this the 23rd day
of September, A. D. 1904.

Ivo Miller, Notary Public.

My commission expires Feb. 14, 1908.

Filed for record, Sep. 26, 1904 at 2²⁵ P. M.

Marshogee Oil Refining Co. R. P. Harrison
(9/27/04) Clerk.

Harrault Decd.

35-164
11-2-07

Know all men by these presents that Frank Timmes and his wife, Evelyn C. Timmes, of Chicago, Illinois parties of the first part for and in consideration of the sum of One (\$1.00) Dollar to them in hand paid by the Muskogee Oil Refining Company a corporation organized under the laws of the Territory of Arizona with its principal place of business at Muskogee, Indian Territory, the receipt of which is hereby acknowledged and other valuable considerations, do hereby grant, bargain sell, convey and confirm unto said The Muskogee Oil Refining Company, its successors and assigns, the following described real estate and premises situate in the city of Muskogee Western District, Indian Territory, and known and described as follows to-wit:

Lots One (1), Two (2), Three (3) and Four (4) in Block Sixty six (66) in the city of Muskogee, according to the Government plat thereof, together with all the improvements thereon and all the appurtenances, privileges and immunities thereto belonging or in anywise pertaining thereto.

To have and to hold the same unto and to the heirs and assigns of said The Muskogee Oil Refining Company, its successors and assigns in fee simple forever. And the said Frank Timmes does hereby covenant with said The Muskogee Oil Refining Company, its successors and assigns, that he is lawfully seized in fee simple of the above granted premises; that he has a good right to grant, bargain sell and convey the same and that he, his heirs, executors and administrators shall forever warrant

and released the same against the lawful claims and demands of all persons whomsoever acquired by or through them.

And I, Evelyn C. Timmis, wife of said Frank Timmis, for and in consideration of said sum of money do hereby release, relinquish and assign unto said the Muskogee Oil Refining Company, its successors and assigns, all my right of dower and Homestead in and to the above described lands and premises.

In witness whereof the said Frank Timmis and Evelyn C. Timmis, have hereunto set their hands this 27th day of December, 1905.

Frank Timmis
Evelyn C. Timmis

State of Illinois, } ss.
County of Cook. }

Be It Remembered that on this 27th day of December, 1905, personally appeared before me, the undersigned, a Notary Public within and for the County and State aforesaid, duly commissioned and acting as such, Frank Timmis to me personally well known and known to me to be the person who executed the foregoing deed of conveyance and acknowledged that he had signed and executed the same for the purposes and considerations therein contained and set forth. And I do so certify.

And I hereby certify further that on this 27th day of December, 1905, voluntarily appeared before me Evelyn C. Timmis, wife of said Frank Timmis also to me personally well known and known to me to be the person whose name appears upon the within and foregoing deed, and

in the presence of her said husband declared that she had of her own free will and accord executed the said deed and signed and sealed her relinquish ment of convey and Homestead therein expressed for the purposes and considerations therein contained and set forth without compulsion or undue influence of her said husband.

Witness my hand and seal of said Notary Public in the day and date last above written
 Dated 4th Nov 1907
 Notary Public
 Notary Commission expires Sept 5th, 1913.
 Filed for record Nov 2-07 at 10:25 a.m.
 R. P. Harrison
 Clerk.
 Baker, Purcell & Dickell.
 City
 11-2-07

his contract made and entered into this 10th day of October, 1907, by and between Success Oil & Gas Company, party of the first part, and Edgar D. Williamson of Memphis Tenn, and F. D. Williamson, parties of the second part:

Witnesseth: That for and in consideration of the sum of Five hundred \$500.00 Dollars, cash in hand paid, the receipt of which is herein acknowledged, and the covenants and agreements hereinafter contained to be kept and performed by the parties of the second part, their successors and assigns, the said party of the first part does hereby lease and let to said party of the second part the exclusive right for ten years from date hereof to enter upon, operate and procure oil and gas upon the following described premises, situated in the Creek Nation Indian Territory, to-wit:-

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The North West Quarter of the South West Quarter of Section 9, Township Fourteen North, Range Eighteen East.

The parties of the second part to furnish at their expense all machinery, derricks, pipes, pipe - lines, tanks, tools and equipments of every kind and character necessary and that may be required in drilling for oil and gas and protecting, storing, tanking and marketing same when produced from said lands.

To begin actual drilling on said land within fifteen days from date hereof.

To drill eight (8) wells on said land and to protect all wells against surrounding operators, provided if the first two wells drilled shall be dry holes then the said second party may re-assign to first party all their rights and interests acquired hereunder which re-assignment shall be made within fifteen days from the time of completion of last well.

To drill said wells and each of them to a depth of eighteen hundred and fifty (1850) feet unless oil or gas in paying quantities be found at a lesser depth.

To begin actual drilling on new well within fifteen (15) days from completion of last well and continue on same until completed, delays occasioned by unavoidable hindrances excepted.

To give to first party and its agents full and free access to wells being drilled from opening to completion with complete log of each well and privilege to measure and examine same and to finish each and every well to the

retention of first party

To keep all wells producing either by
flow or pumping to their fullest capacity
all the time.

To furnish tankage sufficient to store
oil as it is produced.

To deliver to party of the first part
fifty per cent of all oil produced from
said premises in tanks at the well with-
out cost, or to pay the market price
therefor in cash at the option of first party.

If or as found on said premises
to said second party all the rights, benefits
and obligations secured hereby shall
continue so long as either is produced
in paying quantities by the party of the
second part, and if such said wells
or any of same reach so high a point
of production as to render the operation
of same by said second party un-
profitable under this contract said
second party may surrender same to
first party and said first party shall
the right to purchase the equipment
connected with such well or wells at
the then second hand value thereof.

To drill wells at such places as parties
hereto may agree and designate.

To do all things required in carrying
out the provisions of this contract in
first class workmanlike manner so as
to protect the rights and interests of
both parties hereto.

That in event said second parties
shall bring in any gas well or wells on said
land to such flow and capacity as to
justify the marketing of gas therefrom
said second party shall pay to the
owner of the (sect) said land fifty
dollars per annum for each of said

(corp)
(seal)

(seal)

to wells from which gas is so marketed and the party of the first part hereto one eighth of the gross receipts for all gas so marketed by it the said second party. settle merit therefor to be made every thirty days after beginning to market such gas.

To obtain written consent of party of the first part before making assignment of the rights and interests required hereunder.

To forfeit all rights and interests under this contract if any one or more of its terms, provisions or conditions shall be violated by said second party.

This contract in all of its terms, conditions and provisions shall be binding on the parties hereto, their heirs, successors and assigns.

Success: Oil & Gas Company.
By John R. Shaw.

President

Party of the first part.

Edgar D Williamson

W. D Williamson

Parties of the second part.

attest
Franklin Miller
Secretary.

State of Tennessee,
Shelby County.

Personally appeared before me.

A. J. Allen, a Notary Public in and for said County Edgar D Williamson the within signator with whom I am personally acquainted and who acknowledged that he executed the within instrument for the purpose therein contained witness my hand and Notarial Seal at office in Memphis this 12th day of Oct. 1907

A. J. Allen.

Notary Public

United States of America,
Indian Territory,
Western Judicial District.

QUIT CLAIM DEED - With Endowment of Power.

90477 comp

Know All Men by these Presents:

That Success Oil & Gas Company a corporation
 and Indian Territory Western District of the Indian Territory, for and in
 consideration of the sum of One DOLLARS, (\$1.00), to it
 paid by The Muskogee Oil Refining Company a corporation
 the receipt whereof is hereby acknowledged, have remised, released, sold,
 conveyed and by these presents does remise, release, sell, quit and convey unto the
 Success Oil & Gas Company, its heirs and assigns, all the right, title, claim and demand, the said Success Oil
 & Gas Company has in and to the following described lot, piece or parcel of land, lying and being
 situated in the Town of Muskogee
 Indian Territory, to wit: Lots two (2) three (3) four (4) five (5) and
 six (6) in Block sixty five (65) according to the official
 map of said town. The purpose for which
 this deed is made is to release and assign to said
 grantee the oil & gas lease now held by said grantor
 on said premises.

To have and to hold the same, together with all and singular the appurtenances thereto belonging unto the said Success Oil & Gas Company
 its heirs and assigns forever, free and discharged from the claim of the said Success Oil & Gas Company
 any person whomsoever, claiming or to claim the same by, through or under the said Success Oil & Gas Company
 but none other. And I, the said
 Success Oil & Gas Company
 hereby certify to the said Success Oil & Gas Company
 all my right of Dower and Homestead in and to said lands.

IN WITNESS WHEREOF the said Success Oil & Gas Company by
 its President and Secretary thereto properly authorized by the
 Board of Directors does hereunto set its hand and official seal
 This 26th day of April, 1906

Success Oil & Gas Company
 By John P. Shaw
 Attorney
 C. M. Reid Secretary

ACKNOWLEDGMENT

UNITED STATES OF AMERICA,
 INDIAN TERRITORY,
 WESTERN JUDICIAL DISTRICT.
 Be it remembered that on this 26th day of April
 1906 before the undersigned a Notary Public duly commissioned and
 acting in such position and for the Western Judicial District of the
 Indian Territory personally appeared, at Muskogee Indian Territory
 the person whose name is subscribed to the within and foregoing deed of conveyance as one of the part
 grantor, and stated that
 he executed the same for the consideration and purposes therein mentioned and set forth, and I do hereby so certify
 and I further certify that on this day voluntarily appeared before me
 Charles H. Reid, both to me personally well known and known
 to me to be the President and Secretary respectively of Success Oil
 & Gas Company, a corporation, the name of which
 is the party grantor on the within and foregoing deed of
 conveyance, and that they all signed the foregoing deed, and consented thereto, and that the deed
 was executed and set forth without compulsion of either of them.

IN TESTIMONY WHEREOF, I have hereunto set my hand as such Notary Public and official Notarial seal of Muskogee in said
 District and Territory, the date first above written.

conveyance was being each by me first duly sworn did each for
 himself say: that he knows the corporate seal of said corporation
 and that the seal affixed to said deed of conveyance is the
 corporate seal of said corporation and acknowledged that said
 seal affixed thereto by said Secretary; and said President and said
 Secretary did each for himself further acknowledge that the said
 deed was by said President and said Secretary signed, and by said
 Secretary sealed, for and in behalf of said corporation and under
 and by authority of its Board of Directors, that the execution of
 said deed was the full act and deed of said corporation, for the
 purposes and considerations therein mentioned and set forth.

In testimony whereof I have hereunto officially set my hand and official
 notarial seal at Muskogee Indian Territory this 26th day of April 1906
 My Commission Expires March 4, 1910
 Filed for record May 5-1906 at 3:07 P.M.
 Baker, Clerk of Court, C. S. C.

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 for the pur-
 pose is said
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 ry Public.

Seal

Seal

WARRANTY DEED, WITH RELINQUISHMENT OF DOWER.

Know all Men by these Presents:

That We, John R. Shaw
and Jane A. Shaw, his wife
for and in consideration of the sum of Two Thousand (\$2000.00) DOLLARS,
to us in hand paid by The Muskogee Oil Refining Company
the receipt of which is hereby acknowledged,

do hereby grant, bargain, sell and convey unto the said The Muskogee Oil Refining Company unto
its successors heirs and assigns forever, the following lands lying in the City of Muskogee
Western District of the Indian Territory, to wit:
Lots 122(2) 123(3) 124(4) 125(5) and 126(6) Block
Forty five (45), according to the Government plat
Map of.

To have and to hold the same unto the said The Muskogee Oil Refining Company
and unto its successors heirs and assigns forever, with all appurtenances hereunto belonging.
And we hereby covenant with said The Muskogee Oil Refining
Company that we will forever warrant and defend the title to the said lands against
all claims whatever.

And I, Jane A. Shaw wife of the said John R. Shaw
for and in consideration of the said sum of money, do hereby release and relinquish unto the said The Muskogee Oil
Refining Company all my rights of dower and homestead in and to the said lands.
Witness our hands and seals on this 21st day of April A.D. 1906.

John R. Shaw [L. S.]
Jane A. Shaw [L. S.]

UNITED STATES OF AMERICA,
INDIAN TERRITORY,
Western District } SS.

Acknowledgment

De it Remembered, That on this day came before me, the undersigned, a Notary Public
within and for the Western District of Indian Territory aforesaid, duly commissioned and acting John R. Shaw and
to me well known as the grantor in the foregoing Deed, and stated that they had executed the same for the consideration and
purposes therein mentioned and set forth.

And on the same day also voluntarily appeared before me, the said Jane A. Shaw
wife of said John R. Shaw to me well known, and in the absence of her said husband declared that she
had, of her own free will, executed said Deed and signed and sealed the relinquishment of dower and homestead in said Deed for the consideration
and purposes therein contained and set forth, without compulsion or undue influence of her said husband.

WITNESS my hand and seal as such Notary Public
on this 21st day of April A.D. 1906.

My term expires July 1st 1906
Harry G. Davis,
Notary Public

Seal
Notary
Public

No. 2213. ✓

WARRANTY DEED.

CREEK REALTY COMPANY

TO

THE MUSKOGEE OIL REFINING COMPANY

KNOW ALL MEN BY THESE PRESENTS, That the Creek Realty Company (incorporated) of Muskogee, Indian Territory, for and in consideration of the sum of Five hundred and fifty dollar to it duly paid by The Muskogee Oil Refining Company, of Muskogee, Ind. Ter. (the receipt of which is hereby acknowledged) does hereby grant, bargain, sell and convey unto the said The Muskogee Oil Refining Company the following described real estate situated in the City of Muskogee, Indian Ter. to wit:

All of Lot Five (5) in Block Sixty six (66) according to the official plat of said city of Muskogee, Ind. Ter.

Having a frontage of one hundred (100) feet and a depth of one hundred and twenty (125) feet, more or less, together with all and singular the improvements, rights and appurtenances therunto belonging.

TO HAVE AND TO HOLD unto the said The Muskogee Oil Refining Company its successors and assigns forever.

And the said Creek Realty Company hereby covenants with the said Muskogee Oil Refining Company that at the sealing of these presents, the premises above described are free from all incumbrances, and that the said Creek Realty Company will warrant and defend the title thereto to the said Muskogee Oil Refining Company, its successors and assigns against the lawful claims of all persons whomsoever.

In Witness whereof, the said Creek Realty Company has hereunto set its seal and caused these presents to be signed by its President and attested by its Secretary this 20th day of Aug. A. D. 1907.

(Corporate Seal)

Creek Realty Company [Seal]
its President.

Attested: A. Z. English [Seal]
its Secretary.

UNITED STATES OF AMERICA)
INDIAN TERRITORY) SS.
WESTERN JUDICIAL DISTRICT)

On this day came before me, a Notary Public within and for the said District, duly commissioned and acting Frederick B. Severs to me personally well known, and made oath that he is the President of the Creek Realty Company and that he signed the foregoing deed, and caused the seal of said Company to be attached to said deed by order of the Board of Directors of said Company; that the seal thereto attached is the genuine seal of said Company and also came A. Z. English Secretary to me well known, and made oath that he is the Secretary of said Company, that he attached the seal of said company to said deed by order of the President and Board of Directors, and both the said Frederick B. Severs and A. Z. English acknowledged that they and the said Creek Realty Company had executed said deed for the purposes and considerations therein mentioned and set forth.

In Testimony whereof, I have hereunto set my hand and seal as such Notary Public, in the said district and territory on the 20 day of Aug. A. D. 1907.

(Notary Seal)

Ivo Miller
Notary Public

My commission expires Feb. 19-1908.

Filed for record on the 7 day of Mar. 1908, at 3 o'clock and 25 minutes P. M.

(Register Seal)

C. H. Eberle
Register of Deeds.

the County of Muskogee, in said State, being more particularly described as follows:-

#16-the Southeast quarter of the north-west Quarter of Section eight (8), Township thirteen (13) North, Range Sixteen (16) East, containing forty (40) acres, at \$15.00 per acre, total, six hundred (\$600.00) Dollars.

To have and to hold said land with all the tenements, hereditaments and appurtenances thereunto belonging or in any wise appertaining thereto unto the said James P. Allen and Green A. Fewel, their heirs and assigns forever, and the Grantor, the Missouri-Lincoln Trust Company for itself and its successors does hereby covenant with the said James P. Allen and Green A. Fewel, their heirs and assigns, that it is lawfully seized in fee of the aforegranted premises; that they are free from all encumbrances, and that it has full right, power and authority to sell and convey the same and that it does hereby and will forever warrant and defend the title to the same said real estate against all lawful claims and demands whatsoever.

IN TESTIMONEY WHEREOF: The said Missouri-Lincoln Trust Company, has by order of its Board of Directors, hereto caused these presents to be signed by its President and attested by its Secretary and caused its corporate seal to be affixed this day and date above written.

Attest: S. Niccolis Secretary. (CORP SEAL) Missouri-Lincoln Trust Co.

By W. F. Carter President.

STATE OF MISSOURI)
CITY OF ST. LOUIS)

Before me, a Notary Public, in and for the County and State aforesaid, on this the 11th day of August, 1909, personally appeared W. F. Carter, to me known to be the President of the Missouri-Lincoln Trust Company, who signed the foregoing deed of conveyance, and who acknowledged that he is the President of the Missouri-Lincoln Trust Company, and that the seal attached to said deed is the identical corporate seal of the Missouri-Lincoln Trust Company; and at the same time and place appeared S. Niccolis, personally known to me to be the Secretary of the Missouri-Lincoln Trust Company, who acknowledged that the seal of said Missouri-Lincoln Trust Company, and that said deed was attested by him. The said W. F. Carter, as President of the Missouri-Lincoln Trust Company and S. Niccolis, the Secretary of said Company, acknowledged to me that they executed the foregoing deed of conveyance, signed the corporate name, and affixed the corporate seal by the authority of the Board of Directors of the Missouri-Lincoln Trust Company, as their free voluntary act and deed and as the free voluntary act and deed of said corporation for the consideration, purposes and uses therein set forth, and expressed, and I do hereby so certify.

IN TESTIMONEY WHEREOF: I have hereunto set my hand and affixed my Notarial Seal on this the date and day first above written.

My commission expires January 20-1913. (SEAL) Clara M. Tumbach
Notary Public.

Filed for record on the 13th day of August 1909, at 1:25 P.M.

By E. M. Fry (SEAL) C. H. Eberle
Deputy. Register of Deeds.

COMPARED

19860.

WARRANTY DEED.

KNOW ALL MEN BY THESE PRESENTS, That The Muskogee Oil Refining Company, a corporation, organized and existing under and by virtue of the laws of the Territory of Arizona, with its principal place of business at Muskogee, Oklahoma, for and in consideration of the sum of One Hundred and Seventy Six Thousand One Hundred and Fifty Dollars (\$176,150.00), to it

122

in hand paid, the receipt of which is hereby acknowledged, does hereby grant, bargain, sell and convey, unto Muskogee Refining Company, a corporation, organized and existing under and by virtue of the laws of the State of Oklahoma, with its principal place of business at Muskogee, Oklahoma, the following described real estate, lands and premises, situate in the City of Muskogee, Muskogee County, Oklahoma, to-wit:

All of Lots 2, 3, 4, 5, and 6, in Block 65, and Lots 1, 2, 3, 4, and 5, in Block 66, of said City of Muskogee, according to the original Government survey and plat thereof, and Lot 11, of Block 2, and Lot 2, of Block 17, in Midland Valley Addition of said City of Muskogee,

together with all the buildings and improvements thereon and all the rights, privileges and appurtenances thereunto belonging or in any wise pertaining, to have and to hold the said above described premises unto the said grantee, its successors and assigns, forever, free and clear and discharged of and from all former grants, charges, taxes, judgments, mortgages, and other liens and incumbrances of every kind and nature whatsoever, save and except a deed of trust to Theodore C. Lutz, securing a payment of fifty Thousand Dollars (\$50,000.00) and the taxes for 1909.

IN WITNESS WHEREOF, said grantor has caused this instrument to be signed in its name and behalf by its President, and attested by its Secretary, both thereunto duly authorized by its Board of Directors, and its Corporate Seal to be affixed at Chicago, Illinois, this 30th day of June, A.D., 1909.

(CORP SEAL) the Muskogee Oil Refining Company

Attest: J. W. Dowd Secretary.

By George Hibben President.

ACKNOWLEDGMENT.

STATE OF ILLINOIS }
COOK COUNTY } S.

Before me, the undersigned, a Notary Public, in and for the County and State aforesaid, on this 16th day of July, 1909, personally appeared George Hibben, to me known to be the identical person who subscribed the name of maker thereof to the foregoing instrument as its President, and also personally appeared J. W. Dowd, to me known to be the identical person who attested said signature as its Secretary, and each for himself acknowledged to me that he executed the same as his free and voluntary act and deed, and as the free and voluntary act and deed of such corporation for the uses, purposes and considerations therein mentioned, and set forth, and that the corporate seal thereunto affixed is the corporate seal of said corporation, and I hereby so certify.

Witness my hand and Notarial Seal at the City of Chicago, Cook County, Illinois, the day and year last above written.

My commission expires June 1912.

(SEAL)

P. D. Flanagan
Notary Public.

Filed for record on the 14th day of August 1909, at 11:35 A.M.

By E. K. Fry
Deputy.

(SEAL)

C. H. Eberle
Register of Deeds.

COMPARED

19857.)

B F E D.

THIS DEED made this 27 day of July, in the year of our Lord nineteen hundred and nine, by and between Pauline L. Kelso and W. S. Kelso, her husband, of the City of Muskogee, State of Oklahoma, parties of the first part and Melie Blapham, widow, of the City of Charlotte, State of North Carolina, party of the second part:

WITNESSETH, that for and in consideration of the premises and the sum of fifteen hundred dollars (\$1500.00) in hand paid, the receipt of which is hereby acknowledged,

QUIT CLAIM DEED.

92757

COMPARED

From
Bessie E. English
To
Mustogee Refining Company

This instrument was filed for record in my office on the
6 day of *May* A. D. 191*6*
at *10* o'clock *P.* M.
By *H. C. Lusk* County Clerk.
Deputy.

This Indenture, Made this *25* day of *March* in the year A. D. 191*5*, between
Bessie E. English and A. G. English her husband
Mary Severs Owen a single person and Annie S. Cook and Wm J. Cook her husband
of the first part, and *Mustogee Refining Company a Corporation*
of the second part.

Witnesseth, That the said parties of the first part, in consideration of the sum of
One (\$1.00) Dollars,
to them duly paid, the receipt whereof is hereby acknowledged, do hereby quit claim, grant, bargain, sell
and convey unto the said party of the second part, and to *its* heirs and assigns forever, all *their*
right, title, interest and estate, both at law and in equity, of, in, and to the following described real estate situate in the County
of *Mustogee* and State of Oklahoma, to-wit:

Lots Six (6) Block Sixty Six (66) in the City of Mustogee
Oklahoma according to the official plat and survey
thereof

"State of Oklahoma County of *Mustogee*, S. S.

Before me, *Geo. H. Lusk*, a Notary Public in and for said County and
State on this *30* day of *March* 191*5* personally appeared *Mary Severs Owen*
a single person to me known to be the identical person who executed
the within and foregoing instruments and acknowledged to me
that she executed the same as her free and voluntary act and
deed for the uses and purposes therein set forth.

Bessie E. English
A. G. English
Mary Severs Owen
Annie S. Cook
Wm J. Cook
Mustogee County
Oklahoma

My Comm. Expires *June 6 1917*

Geo. H. Lusk

Together with all and singular the hereditaments and appurtenances therunto belonging. To have and to hold the above
granted premises unto the said party of the second part *its* heirs and assigns forever.

In Witness Whereof, The said parties of the first part have hereunto set *their* hands the day
and year first above written.

Signed, Sealed and Delivered in presence of

Bessie E. English
A. G. English
Mary Severs Owen
Annie S. Cook
Wm J. Cook

STATE OF OKLAHOMA, COUNTY OF *Mustogee*, ss:

Before me, *Geo. H. Lusk*, a Notary Public

In and for said County and State, on this *26* day of *March* 191*5*, personally appeared
Bessie E. English and A. G. English her husband and *Annie S. Cook and*
Wm J. Cook her husband

to me known to be the identical persons who executed the within and foregoing instrument and acknowledged to me that
they executed the same as *their* free and voluntary act and deed for the uses and purposes therein set forth.

Witness my hand and *Notarial* seal the day and year above set forth.

My commission expires *June 6 1917*

Geo. H. Lusk
Notary Public

Geo. H. Lusk
Notary Public

92752
COMPARED

FROM
Creek Realty Company
TO
Muskogee Refining Company

STATE OF OKLAHOMA, County of Muskogee, ss.
This instrument was filed for record in my office on the 6
day of May, A. D., 1915, at 4 o'clock P. M.
(*seal*) C. H. Eberle
County Clerk Register of Deeds
Deputy.

WARRANTY DEED—(Corporation.)

KNOW ALL MEN BY THESE PRESENTS: That *Creek Realty Company*, a corporation,
organized under the laws of the United States, formerly in force in Indian Territory, of *Muskogee*, Oklahoma, in consideration
of the sum of *Fifteen Hundred* Dollars, in hand paid, the receipt of which is hereby acknowledged,
does hereby Grant, Bargain, Sell and Convey unto *Muskogee Refining Company*, a corporation,
of *Muskogee, Oklahoma*, the following described real property and premises, situate in *Muskogee* County, State of Oklahoma, to-wit:

*Lots Six (6), Seven (7), Eight (8), and Nine (9) Block
Sixty-six (66), in the City of Muskogee, Oklahoma,
according to the official plat and survey thereof.*

CANCELLED REVENUE
STAMPS FOR \$ / 5
ATTACHED.

together with all the improvements thereon and the appurtenances thereunto belonging, and warrant the title *thence*
TO HAVE AND TO HOLD The said described premises unto the said grantee, *its* heirs and assigns, forever, free, clear and discharged
of and from all former Grants, Charges, Taxes, Judgments, Mortgages and other *liens* encumbrances of whatsoever nature, *or kind*

IN WITNESS WHEREOF, The said grantor,
has caused these presents to be signed in its name by its _____ President, and its corporate seal to be affixed, attested by its Secretary,
at _____, Oklahoma, on this 31st day of March, 1915.

Creek Realty Co.
CORPORATE
SEAL
Muskogee, Okla.

Creek Realty Company
By *W. J. Cook*, President.
Attest: *A. J. English*, Secretary.

ACKNOWLEDGMENT.

STATE OF OKLAHOMA, *Muskogee* County, ss.
BEFORE ME, the undersigned Notary Public in and for said County and State, on this 31st day of March,
1915, personally appeared *W. J. Cook*, to me known to be the identical person who
subscribed the name of the maker thereof to the foregoing instrument as its _____ President, and acknowledged to me that he executed
the same as his free and voluntary act and deed and as the free and voluntary act and deed of such corporation, for the uses and purposes therein set
forth.

WITNESS My hand and official seal, the day and year above written.

My commission expires Feb 12th 1916

Seal
Ivo Miller
Notary Public
Muskogee
County, Okla.

Ivo Miller
Notary Public

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WARRANTY DEED

FROM

Lelia Howard and Walter Howard

STATE OF OKLAHOMA, County of Muskogee, ss.

This instrument was filed for record in my office on the

Nov

A. D. 191*2*, at *10* o'clock *P.* M.

TO

Muskogee Refining Co.

(SEAL)

By

County Clerk

Deputy

KNOW ALL MEN BY THESE PRESENTS That *Lelia Howard and Walter Howard* parties of the first part, in consideration of the

sum of *Five Hundred and no/100* Dollars (\$ *500.00*)

in hand paid, the receipt of which is hereby acknowledged, do hereby grant, bargain, sell and convey unto

Muskogee Refining Company

the following described real property and premises, situate in *Muskogee* County, State of Oklahoma, to-wit:

Lot Eleven (11) in Block Sixty Seven (67) in the City of Muskogee, Oklahoma, according to the official plat of said City.

together with all the improvements thereon and the appurtenances thereto belonging, and warrant the title to the same.

To have and to hold said described premises unto the said *party of the second part* their heirs and assigns forever, free, clear and discharged of and from all former grants, charges, taxes, judgments, mortgages and other liens and encumbrances of whatsoever nature.

Signed and delivered this *21st* day of *May*, 191*2*

Lelia Howard (Seal)

Walter Howard (Seal)

ACKNOWLEDGMENT.

State of Oklahoma, *Muskogee* County, ss.

Before me, a *Notary Public* in and for said County and State, on this *21st* day of

May, 191*2*, personally appeared

Lelia Howard and Walter Howard

to me known to be the identical persons who executed the within and foregoing instrument, and acknowledged to me that they executed the same as their free and voluntary act and deed for the uses and purposes therein set forth.

Witness my hand and seal as such *Notary Public* on the day last above mentioned.

Geo. Miller

Notary Public

My commission expires *Feb. 14, 1912*



WARRANTY DEED.

NOTES: MODERN DEED CO. BUTTERST

FROM

Jessie C. Spaulding et al

TO

Muskogee Refining Co.

STATE OF OKLAHOMA, County of Muskogee, ss.

This instrument was filed for record in my office on the 20 dayof May, A. D. 1910, at 10 o'clock P. M.

(SEAL)

By

County Clerk

Deputy

KNOW ALL MEN BY THESE PRESENTS: That we, Jessie C. Spaulding and her
husband, Homer B. Spaulding, her husband, parties of the first part, in consideration of the
 sum of Twenty-five and no/100 Dollars (\$25.00)
 in hand paid, the receipt of which is hereby acknowledged, do hereby grant, bargain, sell and convey unto

Muskogee Refining Company
 the following described real property and premises, situate in Muskogee County, State of Oklahoma, to-wit:
Lots 6, 7, 8, 9 and 10, in Block 14, in the City of
Muskogee, Oklahoma, according to the official plat
and survey thereof

together with all the improvements thereon and the appurtenances thereunto belonging, and warrant the title to the same.

To have and to hold said described premises unto the said party of the second part, its successors
 heirs and assigns forever, free, clear and discharged of and from all former grants, charges, taxes, judgments, mortgages and
 other liens and encumbrances of whatsoever nature.

Signed and delivered this 21st day of May, 1910

Jessie C. Spaulding (Seal)

Homer B. Spaulding (Seal)

ACKNOWLEDGMENT.

State of Oklahoma, Muskogee County, ss:

Before me, a Notary Public in and for said County and State, on this 21st day of
May, 1910, personally appeared

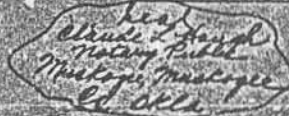
Jessie C. Spaulding and Homer B. Spaulding her husband
 to me known to be the identical persons who executed the within and foregoing instrument, and acknowledged to me
 that they executed the same as their free and voluntary act and deed for the uses and purposes therein set forth.

Witness my hand and seal as such Notary Public on the day last above mentioned.

Claude L. Haugh

Notary Public

My commission expires Friday 9th 1911



WARRANT DEED

STATE OF OKLAHOMA, County of Muskogee, ss.

*John B. Spaulding and
H. B. Spaulding*
Muskogee Refining Company
a corporation

John B. Spaulding
Muskogee Refining Company
a corporation

KNOW ALL MEN BY THESE PRESENTS, That *John B. Spaulding and H. B. Spaulding* of Muskogee, Oklahoma, parties of the first part, in consideration of the sum of *Eighteen Hundred* Dollars (\$ *1800.00*)

in hand paid, the receipt of which is hereby acknowledged, do hereby grant, bargain, sell and convey unto

Muskogee Refining Company, a corporation of Muskogee, Oklahoma the following described real property and premises, situate in the City of Muskogee, Muskogee County, State of Oklahoma, to-wit: *Lots One (1), Two (2), Three (3), Four (4) and Five (5), in Block Fifty-seven (57) in the City of Muskogee, State of Oklahoma, according to the official plat thereof approved by the Secretary of the Interior of June 4th, 1910.*

together with all the improvements thereon and the appurtenances thereunto belonging, and warrant the title to the same.

To have and to hold said described premises unto the said *party of the second part* its heirs and assigns forever, free, clear and discharged of and from all former grants, charges, taxes, judgments, mortgages and other liens and encumbrances of whatsoever nature.

Signed and delivered this *20th* day of *March*, 1917

John B. Spaulding (Seal)
H. B. Spaulding (Seal)

ACKNOWLEDGMENT

State of Oklahoma, *Muskogee* County, ss:

Before me, a *Notary Public* in and for said County and State, on this *20th* day of *March*, 1917, personally appeared *John B. Spaulding and H. B. Spaulding*

to me known to be the identical persons who executed the within and foregoing instrument, and acknowledged to me that they executed the same as their free and voluntary act and deed for the uses and purposes therein set forth.

Witness my hand and seal as such *Notary Public* on the day last above mentioned.

My commission expires *July 1st, 1918*



512 186
of less, and being the same premises conveyed by deed of
conveyance to Oklahoma Producing and Refining Corporation
of America by deed dated June 2, 1924, recorded in Book 437 at Page 435.

SIXTH PART. The East part of the East half of the Northeast quarter of the Southeast quarter of Section 34, Township 15 North, Range 15 East lying immediately West of the Kansas, Kansas & Texas Railway Right of Way, containing 7 acres, more or less, being the same premises conveyed by Wanda A. Spaulding and James H. Spaulding, husband and wife, to Oklahoma Producing and Refining Corporation by deed dated June 2, 1924, recorded in Book 437 at Page 435.

SEVENTH PART. The South 50 feet of Lot 5 in Block 307, City of Muskogee, Muskogee County, Oklahoma, according to the official plat thereof, being the same premises conveyed by Arthur Hollins and Joe Hollins to Oklahoma Producing and Refining Corporation of America by deed dated February 7, 1922, recorded in Book 390 at Page 475.

EIGHTH PART. The North 50 feet of the South 100 feet of Lot 5 in Block 307 in the City of Muskogee according to the official plat thereof, being the same premises conveyed by Isaac Dade and Marian Dade, his wife, to Oklahoma Producing and Refining Corporation of America by deed dated April 5, 1921, recorded in Book 393 at Page 348.

NINTH PART. The North 50 feet of Lot 5 in Block 307 in the City of Muskogee according to the recorded plat thereof, being the same premises conveyed by Pine Walker and Emma Walker, his wife, to Oklahoma Producing and Refining Corporation of America by deed dated April 5, 1921, recorded in Book 393, at Page 348.

TENTH PART. Lots 1, 2, 3 and 4 of Block 300, in the City of Muskogee, Oklahoma, according to the official plat thereof, being original Lot No. 4, and being the same premises conveyed by William Haff to Oklahoma Producing and Refining Corporation of America by deed dated February 10, 1922, recorded in Book 403, at Page 526.

ELEVENTH PART. Lots 8, 9, 10, 12 and North Half of Lot 11 in Block 308 in the original townsite of Muskogee, Oklahoma, being the same premises conveyed by Creek Realty Company to Oklahoma Producing and Refining Corporation of America, by deed dated August 16, 1922, recorded in Book 403, Page 513.

TWELFTH PART. The South Half of Lot 11 in Block 308, City of Muskogee, Muskogee County, Oklahoma.

TO HAVE AND TO HOLD THE SAME, together with all and singular the tenements, hereditaments and appurtenances thereto belonging or in anywise pertaining, forever.

And this OKLAHOMA PRODUCING AND REFINING CORPORATION OF AMERICA, its successors or assigns, does hereby covenant, promise and agree to and with the said party of the second part at the delivery of these presents that it is lawfully seized in its own right of an absolute and indefeasible

of inheritance in fee simple, of and in all and singular the above granted and described premises, with the appurtenances; that the same are free, clear, and discharged and unincumbered of and from all former and other grants, titles, charges, estates, judgments, taxes, assessments and incumbrances, or whatsoever nature and kind, and that said Corporation will WARRANT and FOREVER DEFEND the same unto said party of the second part its successors and assigns against said party of the first party, their successors or assigns, and all and every person or persons whomsoever, lawfully claiming or to claim the same.

IN WITNESS WHEREOF, The said party of the first part thereto has caused these presents to be signed in its name by its Vice-president, and the corporate seal to be affixed, attested by its secretary at Tulsa, Oklahoma, the year and day first above written.

OKLAHOMA PRODUCING AND REFINING CORPORATION OF AMERICA.

By H. N. Cole
Vice President.

By Wm. Richards
Secretary.

STATE OF OKLAHOMA, TULSA COUNTY, SS.

Before me, the undersigned, a Notary Public in and for said County and State, on this 28 day of July 1924, personally appeared H. N. Cole, to me known to be the identical person who subscribed the name of the maker thereof to the foregoing instrument as its Vice-President and acknowledged

QUITCLAIM DEED

217302

THIS INDENTURE, Made this 30th day of September in the year A.D.,
1926, between John R. March and Marian W. March, husband & wife,

of the first part, and The Pure Oil Company, a corporation, organized and existing
under the laws of the State of Ohio of the second part,

WITNESSETH, That the said parties of the first part, in consideration of the sum of One hundred twenty
five (\$ 125.00) ----- DOLLARS

to them duly paid, the receipt whereof is hereby acknowledged, do hereby quit claim, grant, bargain,
sell and convey unto the said part y of the second part, and to it's heirs and assigns forever, all
their right, title, interest and estate, both at law and in equity, of, in and to the following described real estate
situate in the County of Muskogee, City of Muskogee and State of Oklahoma, to-wit:

The South 10 ft. of Lot D and the North 40 ft. of Lot E,
of the Subdivision of Lots 1, 2, 3, and 4, Block 300,
in the City of Muskogee.

Lot One (1) Block Sixtyseven (67), City of Muskogee.

Together with all and singular the hereditaments and appurtenances thereunto belonging. To have and to hold the above
granted premises unto the said part y of the second part it's heirs and assigns forever.

IN WITNESS WHEREOF, The said parties of the first part ha ve hereunto set their hand & the day
and year first above written.

Signed, Sealed and Delivered in the presence of

John R. March
Marian W. March

STATE OF OKLAHOMA, COUNTY OF MUSKOGEE, ss:

Before me, Lewis B. Malone

Notary Public

In and for said County and State, on this 30th day of September 1926, personally appeared

Marian W. March and John R. March

to me known to be the identical persons who executed the within and foregoing instrument and acknowledged to me that
they executed the same as their free and voluntary act and deed for the uses and purposes therein set forth.

I find in my book and official seal the day and year above set forth.



Lewis B. Malone
Notary Public

My commission expires Feb. 24, 1930.

217834. STATE OF OKLAHOMA, COUNTY OF MUSKOGEE)35 This instrument was filed for
record in my office on the 23rd day of Oct., A.D. 1926, at 8:00 o'clock A. M.
Walter F. Head, County Clerk, by Mrs. Bashie McAlpin, Deputy. (Seal)

Book 644, Page 346

QUITCLAIM DEED

THIS INDENTURE, Made this 18th day of October 217834 in the year A. D.
1926 between A. A. Lange and G. Lange her husband

of the first part, and Pure Oil Company a corporation
of the second part

WITNESSETH, That the said parties of the first part, in consideration of the sum of
One Dollar and other valuable consideration DOLLARS

to USA duly paid, the receipt whereof is hereby acknowledged, do hereby quit claim, grant, bargain,
sell and convey unto the said part of the second part, and to its heirs and assigns forever, all
our right, title, interest and estate, both at law and in equity, of, in and to the following described real estate
situate in the County of Muskogee and State of Oklahoma, to-wit:

Lot Five (5) in Block Sixty Seven (67) in the City of Muskogee
Oklahoma according to plat thereof,

Together with all and singular the hereditaments and appurtenances therunto belonging. To have and to hold the above
granted premises unto the said part of the second part its heirs and assigns forever.

IN WITNESS WHEREOF, The said part of the first part have hereunto set their hand on the day
and year first above written.

Signed, Sealed and Delivered in presence of

A. A. Lange
G. Lange

STATE OF OKLAHOMA, COUNTY OF Muskogee ss:

Before me Mayne Hightower notary public
in and for said County and State, on this 18 day of October 1926 personally appeared
A. A. Lange and G. Lange her husband

known to be the identical person, who executed the within and foregoing instrument and acknowledged to me that
he executed the same as their free and voluntary act and deed for the uses and purposes therein set
forth, my hand and notarial seal the day and year above set forth.



Mayne Hightower
Notary Public
June 2, 1928

649 438

General Warranty Deed

STATUTORY RECORD FORM
No. 30 Manufactured by
THE OLOS PRESS, Tulsa Oklahoma
257333

This instrument, Made this 20th day of January A. D. 1932

between J.R. Stewart

of Muskogee County, in the State of Oklahoma, of the first part, and

The Pure Oil Company, a corporation, of the second part.

WITNESSETH, That in consideration of the sum of One Dollar and other valuable consideration (\$1.00) - DOLLARS, the receipt whereof is hereby acknowledged,

said party of the first part, do as by these presents grant, bargain, sell and convey

unto said party of the second part, its successors heirs and assigns, all of the following described

real estate situated in the County of Muskogee, State of Oklahoma, to wit:

The South 70 feet of Lot One (1), Block Sixty-five (65)

in the City of Muskogee, according to the official plat.

TO HAVE AND TO HOLD THE SAME, Together with all and singular the tenements and appurtenances thereto belonging or in anywise appertaining forever.

And said J.R. Stewart heirs, successors, executors or administrators, do hereby covenant, and agree to and with said party of the second part at the delivery of these presents that they are lawfully seized in fee simple of the right of inheritance and indefeasible estate of inheritance in fee simple, of and in, all and singular, the above granted and described premises, with appurtenances; that the same are free, clear and discharged and unincumbered of and from all burden and other grants, titles, charges, estates, judgments, taxes, assessments, and encumbrances, of whatsoever nature and kind EXCEPT

and that they will WARRANT AND FOREVER DEFEND the same unto said party of the second part, its heirs, and assigns, against said party of the first part heirs and successors assigns, and all and every person or persons whomsoever, lawfully claiming or to claim the same.

IN WITNESS WHEREOF, The said party of the first part has hereunto set his hand the day and first first above written.

Witness

Address

Witness

Address

J.R. Stewart

314824

DEED

BOOK 807 PAGE 161

THIS INDENTURE, made this 2nd day of June, 1943, by and between THE PURE OIL COMPANY, a corporation, party of the first part, and CARL FRIX, of Muskogee, Oklahoma, party of the second part, WITNESSETH:

That the said party of the first part in consideration of the sum of One (\$1.00) Dollar, and other good and valuable consideration, to it in hand paid, has bargained and sold, and by these presents does hereby bargain, sell, grant and convey unto said party of the second part, his successors, heirs and assigns, forever, all that tract, piece or parcel of land lying and situate in the County of Muskogee, State of Oklahoma, described as follows, to-wit:

Lots 8, 9, 10, 11 and 12 in Block 305;
The South 70 feet of Lot 1, and Lots 2, 3, 4, 5, and 6 in Block 65;
Lots 1, 2, 3, 4, 5, 6, 7, 8, and 9 in Block 66;
Lots 1, 2, 3, 4, 5, 6, 7, and 8 in Block 307;
Lots "A", "B", "C", "D", "E", "F", "G", "H", "I", "J", "K", "L", "M", "N", "O", "P", "Q", "R", "S", "T", "U", "V", "W", "X", "Y", and "Z" in Block 300; and also all right, title and interest of the grantor in and to that portion of Cherokee Street from the North line of Nashville Avenue to a line 130 feet northerly of the north line of Madison Avenue, and all that portion of Madison Avenue from the East line of Cherokee Street to a line parallel to and 30 feet west of the west line of "E" Street, and all of the alley through Block 307, except the east 30 feet thereof, vacated by the City of Muskogee, all in the City of Muskogee, Muskogee County, Oklahoma, according to the recorded plat thereof.

TO HAVE AND TO HOLD the same, together with all the tenements, hereditaments and appurtenances thereunto belonging or in anywise appertaining.

Party of the first part hereby covenants and agrees that at the delivery hereof said property is free, clear and discharged of and from all former grants, charges, taxes, judgments, mortgages and other liens and encumbrances of whatsoever nature.

SIGNED and delivered this 2nd day of June, 1943.



THE PURE OIL COMPANY, a corporation,

By C. B. Watson
Vice President.

(C.B. Watson)

STATE OF OKLAHOMA MUSKOGEE COUNTY

I hereby certify that this instrument was filed for record in my office

12.30 JUN 5 1943

and recorded in Book 804 Page 161
HOBIE J. ADDINGTON, County Clerk

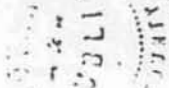
Hobie J. Addington

STATE OF ILLINOIS,)

(ss

COUNTY OF COOK.)

Before me, the undersigned, a Notary Public in and for said County and State, on this 2nd day of June, 1943, personally appeared C. B. Watson, to me known to be the identical person who subscribed the name of the maker thereof to the foregoing instrument as its Vice President, and acknowledged to me that he executed the same as his free and voluntary act and deed, and as the free and voluntary act and deed of such corporation, for the uses and purposes therein set forth.



Josephine C. Brown
Notary Public.

My commission expires May 3, 1947

QUITCLAIM DEED CORPORATION FORM

FORM 1050 PAGE 386

State of Oklahoma, Muskogee County
I hereby certify that this instrument was filed for
record in my office on 10/15/26 at 11:00 AM
and duly recorded in Book 28 Page 126
By [Signature] County Clerk
(Seal) Deputy

KNOW ALL MEN BY THESE PRESENTS, That The Pure Oil Company
a corporation organized under the laws of
State of Ohio in consideration
of the sum of One and no/100 Dollars and other good and valuable considerations nothing
in hand paid the receipt of which is hereby acknowledged, does hereby grant, bargain, sell, convey and quit-
claim unto Muskogee Materials Company, a corporation
all of its right, title and interests in and to the following described real property and premises, situate in
Muskogee County, State of Oklahoma, to-wit:

All right, title and interest of the grantors in and to the
West Half (W₂) of that portion of Cherokee Street in the City
of Muskogee, Oklahoma, described as beginning at the North boundary
line of the intersection of Cherokee Street and Nashville Avenue in
the City of Muskogee, Oklahoma; thence Southerly to the North boundary
line of the public road extending along the Fair Grounds site, said
boundary line being the original southern boundary of the city limits
of the City of Muskogee, Oklahoma, which said portion of Cherokee Street
in the City of Muskogee, Oklahoma, was vacated by Ordinance No. 1342
of the City of Muskogee, Oklahoma, on January 27, 1926.

together with all improvements thereon and the appurtenances thereto belonging.

TO HAVE AND TO HOLD, The said described premises unto the said grantee a heirs and assigns
forever.

IN WITNESS WHEREOF, The said grantor has caused these presents to be signed in its name by its Vice
President and its corporate seal affixed, attested by its Secretary at Chicago, Illinois, OREXXX
on this 11 01 13th day of April, 1926.

The Pure Oil Company

[Signature] Vice President.

Attest: [Signature] Secretary.

ACKNOWLEDGMENT

State of Oklahoma, Illinois, Cook County, ss.

Before me, the undersigned Notary Public in and for said County and State, on this 13th day of
April, 1926, personally appeared K. A. Covell
as me known to be the identical person who subscribed the name of the maker thereof to the foregoing in-
strument as its President, and acknowledged to me that he executed the same as his free and voluntary act
and deed and as the free and voluntary act and deed of such Corporation, for the uses and purposes therein
set forth.

Witness my hand and official seal the day and year above written.

[Signature]
Notary Public.

Witness my hand and official seal the day and year above written.

6827
862791

10
STATE OF OKLAHOMA
MUSKOGEE COUNTY
FILED OR RECORDED

Address Information:
Chandler Materials Company
5805 East 15th Street
Tulsa, OK 74112

APR 30 9 00 AM '96

BETTY PACE
COUNTY CLERK

WARRANTY DEED

WITNESSETH:

That MUSKOGEE MATERIALS COMPANY, a corporation, in consideration of the sum of ONE DOLLAR and other good and valuable consideration, in hand paid, the receipt of which is hereby acknowledged, hereby grant, bargain, sell and convey unto CHANDLER MATERIALS COMPANY, a corporation, the following described real property and premises situate in Muskogee County, Oklahoma, to-wit:

The Southerly 90.6 feet of Lot 1 and all of Lots 2, 3, 4, 5, 6, 7, 8 and 9 of Block 66, in the City of Muskogee, Oklahoma, which includes the West half of that part of South Cherokee Street vacated by Ordinance #1342, described as beginning at the North boundary line of the intersection of Cherokee Street and Nashville Avenue in the City of Muskogee, Oklahoma, thence Southerly to the North boundary line of the public road extending along the Fair Grounds site, said boundary line being the original southern boundary of the city limits of the City of Muskogee, Oklahoma,

BOOK PAGE

2386 123

grantee, its successors and assigns forever free, clear and discharged of and from all former grants, charges, taxes,

ROGER HILFGER
ATTORNEY AT LAW
620 WEST BROADWAY
MUSKOGEE, OK
683-4445

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STATE OF OKLAHOMA
MUSKOGEE COUNTY
FILED OR RECORDED

Address Information:
Chandler Materials Company
5805 E. 15th St.
Tulsa, OK 74112-6401

JUN 11 11 46 AM '96

BETTY PACE
COUNTY CLERK

WARRANTY DEED

WITNESSETH:

That CHANDLER MATERIALS COMPANY, a corporation, in consideration of the sum of ONE DOLLAR and other good and valuable consideration, in hand paid, the receipt of which is hereby acknowledged, hereby grant, bargain, sell and convey unto THE CITY OF MUSKOGEE, OKLAHOMA, the following described real property and premises situate in Muskogee County, Oklahoma, to-wit:

The Southerly 90.6 feet of Lot 1 and all of Lots 2, 3, 4, 5, 6, 7, 8 and 9 of Block 66, in the City of Muskogee, Oklahoma, which includes the West half of that part of South Cherokee Street vacated by Ordinance #1342, described as beginning at the North boundary line of the intersection of Cherokee Street and Nashville Avenue in the City of Muskogee, Oklahoma, thence Southerly to the North boundary line of the public road extending along the Fair Grounds site, said boundary line being the original southern boundary of the city limits of the City of Muskogee, Oklahoma,

together with all improvements thereon and the appurtenances thereunto belonging, and warrant the title to the same.

To have and to hold the said described premises unto the said grantee, its successors and assigns forever free, clear and

BOOK PAGE

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16-50 Rev. ✓

BOOK 1337 PAGE 342

BOOK 1337 PAGE 342

WARRANTY DEED

KNOW ALL MEN BY THESE PRESENTS: That Preston W. Jones and
Dorothy Jones, husband and wife, and Mary L. Huckin, a single person
parties

of the first part, in consideration of the sum of
Ten dollars and other valuable considerations Dollars (\$10.00 & OVC),
 in hand paid, the receipt of which is hereby acknowledged, do hereby grant, bargain, sell
 and convey unto W. F. Milling Company, Inc.
 the following described real property and premises, situate in Muskogee County,
 State of Oklahoma, to-wit:

The North 9.4 feet of Lot 1 in
 Block 66, and that part of Madison Avenue in said City (now
 vacated) extending from the West line of Cherokee Street to the East
 line of the right of way of the M. K. & T. Railway Company and the
 South 84.8 feet of Lot 6 in Block 65, all in the City of Muskogee,
 according to the official plat thereof, which entire tract is more
 particularly described as follows, to-wit: Beginning at a point in
 the East line of Lot 6 in Block 65 in the said City of Muskogee,
 55.2 feet South of the Northeast Corner thereof; THENCE Westerly along
 a line parallel to the North line of said Lot a distance of 125.5
 feet to the West line of said Lot 6; thence Southerly along said West
 line of said lot and along the East line of the right of way of the
 M. K. & T. Railway Company and the West line of Lot 1 in Block 66 a
 distance of 174.2 feet; THENCE Easterly along a line parallel with
 the North line of Lot 1, Block 66, 125.5 feet to the East line of
 Lot 1; THENCE Northerly along the East line of Lot 1 in Block 66 ex-
 tended across Madison Avenue (now vacated) and along the East line
 of Lot 6 in Block 65 in said City a distance of 174.2 feet to the
 point of beginning. ALSO all of the right, title and interest of the
 grantors in the West Half of that portion of Cherokee Street in the
 City of Muskogee, extending from a point 9.4 feet South of the
 Northeast Corner of Lot 1 in Block 66 in the City of Muskogee, North-
 erly to a point in the East line of Lot 6 in Block 65 in said City
 55.2 feet South of the Northeast corner thereof (which portion of
 Cherokee Street was vacated by the City of Muskogee, Oklahoma, by
 its Ordinance No. 1262.)

16.50

BOOK 1337 PAGE 343

State of Oklahoma, Muskogee County
I hereby certify that this instrument
was Filed for Record in my Office

AT MAY 26 1972

and Recorded in Book 1337

J. E. TAYLOR, County Clerk

By *[Signature]* Deputy

343



together with all the improvements thereon and the appurtenances thereunto belonging, and warrant the title to the same.

To have and to hold said described premises unto the said party of the second part its TRUSTEES, SUCCESSORS and assigns forever, free, clear and discharged of and from all former grants, charges, taxes, judgments, mortgages and other liens and encumbrances of whatsoever nature except

Signed and delivered this 23rd day of May, 1972.

Mary L. Huckin

Preston W. Jones (Seal)
Dorothy Jones (Seal)

ACKNOWLEDGEMENT

State of Oklahoma, Muskogee County, ss.

Before me, a Notary Public in and for said County and State, on this 23rd day of May, 1972, personally appeared Preston W. Jones and Dorothy Jones, husband and wife, and Mary L. Huckin, a single person

to me known to be the identical persons who executed the within and foregoing instrument, and acknowledged to me that they executed the same as their free and voluntary act and deed for the uses and purposes therein set forth.

Witness my hand and seal as such Notary Public on the day last above mentioned.



[Signature]
Notary Public

My commission expires December 21, 1974

962098

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13
MTSTATE OF OKLAHOMA
MUSKOGEE COUNTY
FILE

2002 AUG 30 A 10:35

69652

-----[Space Above This Line for Recording Data]-----
 Mailing Address: 1119 S. Cherokee, Muskogee, Oklahoma 74403
 Property Address: 1119 S. Cherokee, Muskogee, Oklahoma 74403

WARRANTY DEED
 (Individual Form)

KNOW ALL MEN BY THESE PRESENTS:

That **W.P. Milling Company, Inc.**, of Muskogee County, State of Oklahoma, parties of the first part, in consideration of the sum of TEN DOLLARS AND 00 CENTS and other valuable considerations in hand paid, the receipt of which is hereby acknowledged, does hereby Grant, Bargain, Sell and Convey unto Muskogee Mills, Inc., parties of the second part, the following described property and premises situated in Muskogee County, State of Oklahoma, to-wit:

The South 70 feet of Lot 1 and all of Lots 2,3,4,5 and 6 in Block 65 in the City of Muskogee and the North 40 feet of vacated Madison Avenue and adjacent vacated part of Cherokee Street, Muskogee County, Oklahoma.

together with all the improvements thereon, and the appurtenances thereunto belonging, and warrant the title to the same.

TO HAVE AND TO HOLD said described premises unto the said parties of the second part, and to the heirs and assigns, forever, free, clear and discharged of and from all former grants, charges, taxes, judgments, mortgages and other liens and encumbrances of whatsoever nature.

EXCEPT covenants, conditions, easements, restrictions and mineral conveyances of record.

Signed and delivered this August 27th, 2002.

By: [Signature]
 W.P. Milling Company, Inc. - Vice President

STATE OF OKLAHOMA

COUNTY OF LAKE McHenry

INDIVIDUAL ACKNOWLEDGMENT
 Oklahoma Form 001

Before me, the undersigned, a Notary Public in and for said County and State on this August 27th, 2002, personally appeared **W.P. Milling Company, Inc.** to me known to be the identical persons who executed the within and foregoing instrument and acknowledged to me that they executed the same as their free and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and seal the day and year last above written.

My commission expires:

6/16/06

[Signature]
 Notary Public

GF #020824

Prepared By: Muskogee Title Company, 326 Court, Muskogee, OK 74401
 Phone 918-682-7727 Fax 918-682-7729



BOOK PAGE

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STATE OF OKLAHOMA
MUSKOGEE COUNTY

2002 AUG 30 A 10:35

-----[Space Above This Line for Recording Data]-----

Mailing Address: 1100 S. Cherokee, Muskogee, Oklahoma 74403
Property Address: 1100 S. Cherokee, Muskogee, Oklahoma 74403

WARRANTY DEED
(Individual Form)

KNOW ALL MEN BY THESE PRESENTS:

That **W.P. Milling Company, Inc.**, of Muskogee County, State of Oklahoma, parties of the first part, in consideration of the sum of TEN DOLLARS AND 00 CENTS and other valuable considerations in hand paid, the receipt of which is hereby acknowledged, does hereby Grant, Bargain, Sell and Convey unto Muskogee Mills, Inc., parties of the second part, the following described property and premises situated in Muskogee County, State of Oklahoma, to-wit:

The North 49.4 feet of Lot 1 in Block 66 in Muskogee Original Townsite, including the South 40 feet of Vacated Madison Avenue and adjacent vacated part of Cherokee Street, Muskogee County, Oklahoma.

together with all the improvements thereon, and the appurtenances thereunto belonging, and warrant the title to the same.

TO HAVE AND TO HOLD said described premises unto the said parties of the second part, and to the heirs and assigns, forever, free, clear and discharged of and from all former grants, charges, taxes, judgments, mortgages and other liens and encumbrances of whatsoever nature.

EXCEPT covenants, conditions, easements, restrictions and mineral conveyances of record.

Signed and delivered this August 27th, 2002.

By: [Signature]
W.P. Milling Company, Inc. - VICE PRESIDENT

STATE OF ~~OKLAHOMA~~ ^{ILLINOIS}
COUNTY OF ~~Muskogee~~ ^{McHENRY}

SS:

INDIVIDUAL ACKNOWLEDGMENT
Oklahoma Form

Before me, the undersigned, a Notary Public in and for said County and State on this August 27th, 2002, personally appeared **W.P. Milling Company, Inc.** to me known to be the identical persons who executed the within and foregoing instrument and acknowledged to me that they executed the same as their free and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and seal the day and year last above written.

My commission expires:

6/16/2006

[Signature]
Notary Public

GF #020925

Prepared By: Muskogee Title Company, 326 Court, Muskogee, OK 74401
Phone 918-682-7727 Fax 918-682-7729

STATE OF OKLAHOMA

Muskogee County

Documentary Stamps: \$54.75



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Hand

23749

QUIT-CLAIM DEED

NO DOCUMENTARY STAMPS NECESSARY
EXEMPT: OKLA. STAT. TIT. 68, §3202(6)

THIS INDENTURE, made this 26th day of March, 1992, between VERD-ARK-CA DEVELOPMENT CORPORATION, d/k/a VERD ARK CA, a Corporation ("Grantor"), and MADISON STREET PARTNERSHIP, ("Grantee").

WITNESSETH: That said Grantor, in consideration of the sum of One Dollar and no/100's (\$1.00) and other good and valuable consideration to it duly paid, the receipt of which is hereby acknowledged, does hereby QUIT-CLAIM, GRANT, BARGAIN, SELL, AND CONVEY unto the Grantee, and to its successors and assigns forever, all its right, title, interest and estate, both at law and in equity, of, in and to, the following described real estate located in Muskogee County, State of Oklahoma, to-wit:

Lots One (1), Two (2), Three (3), Four (4), Five (5), Six (6) and Seven (7) in Block 67 in the City of Muskogee, Muskogee County, State of Oklahoma, according to the recorded plat thereof.

THE PURPOSE OF THIS QUIT-CLAIM DEED IS TO RELEASE AND QUIT-CLAIM ANY AND ALL RIGHT, TITLE AND INTEREST THAT THE GRANTOR MAY CLAIM IN AND TO THE ABOVE-DESCRIBED PROPERTY BY VIRTUE OF A CERTAIN ASSIGNMENT OF REAL ESTATE MORTGAGE DATED JULY 9, 1986, AND RECORDED ON JULY 11, 1986, IN BOOK 1857 AT PAGE 241 IN THE OFFICE OF THE MUSKOGEE COUNTY CLERK.

Together with all and singular the hereditaments and appurtenances thereunto belonging. TO HAVE AND TO HOLD to the above granted premises unto the Grantee, its successors and assigns forever.

VERD-ARK-CA DEVELOPMENT CORPORATION
a/k/a VERD ARK CA, a Corporation

BY Richard A. White
President

Grantor



BETTY PAGE
COUNTY CLERK

Mar 23 10 14 AM '92

STATE OF OKLAHOMA
MUSKOGEE COUNTY
FILED
1992

BOOK PAGE

2136 368

ASSIGNMENT OF RIGHT OF WAY

BOOK 698 PAGE 155

THIS ASSIGNMENT, Made this 28th 272590 day of December, 1935, by

STANOLIND PIPE LINE COMPANY, a Maine corporation, having its principal business office in Tulsa, Oklahoma, Assignor, to PURE TRANSPORTATION COMPANY, a

Ohio corporation, Assignee:

W I T N E S S E T H

WHEREAS, said Stanolind Pipe Line Company is now the owner and holder of the following pipe line right of way grant affecting lands situated in Muskogee County, State of Oklahoma, to-wit:

Right of Way Contract executed by George W. Sterling, dated February 25, 1935, covering N $\frac{1}{2}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$ 34-15N-18E, and recorded August 9, 1935 in Book 693 on Page 332 in the office of the County Clerk of Muskogee County, Oklahoma.

NOW THEREFORE, WITNESSETH, That for a good and valuable consideration, receipt of which is hereby acknowledged, said Stanolind Pipe Line Company has granted, bargained, assigned, set over and conveyed, and by these presents does hereby grant, bargain, assign, set over and convey unto said Pure Transportation Company, all the right, title and interest of said Stanolind Pipe Line Company in, to and under said right of way grant.

TO HAVE AND TO HOLD the same unto said Pure Transportation Company, its successors and assigns, forever, subject, nevertheless, to the terms, conditions and provisions of said right of way grant; and said Stanolind Pipe Line Company, for and on behalf of itself, its successors and assigns, hereby warrants its title under said right of way grant against the claims of any persons claiming by, through or under it, but not otherwise.

IN WITNESS WHEREOF, said Stanolind Pipe Line Company has caused the execution of these presents by its duly authorized officers and its corporate seal to be hereunto affixed, as of the day and year first above written.

STANOLIND PIPE LINE COMPANY

By _____
President

ATTEST

ASSIGNMENT OF RIGHTS OF WAY AND EASEMENTS

KNOW ALL MEN BY THESE PRESENTS: That for a valuable consideration, the receipt of which is hereby acknowledged, The Pure Oil Pipe Line Company, an Ohio corporation, does hereby sell, assign, transfer, set over and deliver unto Pure Transportation Company, an Ohio corporation, duly admitted and qualified to do business in the State of Oklahoma, with its principal office in the City of Muskogee, its successors and assigns, all the right, title, estate and interest of said The Pure Oil Pipe Line Company, in, to, and under the rights of way and easements shown on Schedule "A" attached hereto and made a part hereof, as fully as if written herein, together with all property and fixtures of The Pure Oil Pipe Line Company located in or upon said rights of way, and easements.

To have and to hold said rights of way, easements, property and fixtures, unto said Pure Transportation Company, its successors and assigns, effective on and after December 1st, 1934 with the understanding and agreement that Pure Transportation Company will assume and perform all of the terms and conditions of said rights of way and easements, which heretofore have devolved upon The Pure Oil Pipe Line Company.

IN WITNESS WHEREOF said The Pure Oil Pipe Line Company has had hereunto affixed its name and corporate seal by its duly authorized officers this 27th day of November, 1934.

ATTEST:

Assistant Secretary

THE PURE OIL PIPE LINE COMPANY

By

Vice-President

STATE OF ILLINOIS

CO.

COUNTY OF COOK

Before me, the undersigned Notary Public in and for said County and State on this day personally appeared A. C. Harvey, Vice-President and C. E. Jay, Assistant Secretary of The Pure Oil Pipe Line Company, a corporation, both known to me to be the persons whose names are subscribed to the foregoing instrument, and being by me duly sworn said, that they are the Vice-President and Assistant Secretary respectively of said corporation, and that the seal affixed to said instrument is the corporate seal of said corporation, and that they severally signed and sealed said instrument in behalf of said corporation, for the purposes and consideration therein expressed and by authority of its Board of Directors, and in their respective capacities said officers acknowledged said instrument to be the free act and deed of said corporation.

IN TESTIMONY WHEREOF I have hereunto affixed my name and notarial seal this 27th day of November, 1934.

James A. Hutchinson
Notary Public - Cook County
Illinois.

277940
General Warranty Deed

BOOK 712 PAGE 95
STATUTORY RECORD FORM
No. 30 Manufactured by
The Ohio Press, Tulsa Oklahoma

This Indenture, Made this 29th day of March A. D. 1937

between ROBERT BEBB and FLORENCE A. BEBB, his wife, FORREST BEBB and MARY P. BEBB, his wife,
and MAURICE R. BEBB and HELEN V. BEBB, his wife,
of Muskogee County, in the State of Oklahoma, of the first part, and

THE PINE OIL COMPANY, a corporation of the second part.

WITNESSETH, That in consideration of the sum of One (\$1.00) Dollar and other
good and valuable consideration, DOLLARS, the receipt whereof is hereby acknowledged,
said part 1st of the first part, do by these presents grant, bargain, sell and convey
unto said part y of the second part, ^{successors} ~~its heirs~~ and assigns, all of the following described
real estate situated in the County of MUSKOGEE, State of Oklahoma, to-wit:

The East Half of the Northeast quarter of Southeast Quarter, less .18 acres of right-
of-way of the M.E. & T. Railroad, ...and that part of the East Half of the Northeast Quarter
described as follows:

beginning at a point in the Northeast quarter of said Section Thirty-four
(34) which is 400.1 feet on a 6 degree one minute curve whose radius is 552.9
feet in a Southeasterly direction from a point on the Southerly bank of Coody
Creek which is on the East line of Fourth Street of the original Townsite of
Muskogee, Oklahoma, 238 feet South of the South line of Lincoln Avenue; thence,
in a Southeasterly direction on a six degree one minute curve whose radius is
552.9 feet a distance of 711 feet; thence on a tangent in a Southwesterly
direction 456.5 feet to a point on the East and West half section line of said
Section thirty-four (34), thence East along said half section line a distance
of 141.48 feet to a point which is the Southwest corner of the Southeast
quarter of the Northeast quarter of said Section Thirty-four (34); thence North
88 degrees 15 minutes East a distance of 1,375.88 feet to the point of beginning,
all in Section Thirty-four (34), Township Fifteen (15) North, Range Eighteen (18)
East of the Indian Base and Meridian, Muskogee County, Oklahoma.

WITNESSETH, I, THEO. KATZ, CLERK OF DISTRICT COURT,
hereby certify that this instrument was filed
for record in my office at 9:20 A.
APR 10 1937, and recorded
in Book 712, Page 95
THEO. KATZ, CLERK.



By Robert Bebb Sheriff. Together with all and singular the tenements, hereditaments and
appurtenances thereto belonging or in anywise appertaining forever.

And said Robert Bebb and Florence A. Bebb, his wife, Forrest Bebb and Mary P. Bebb,
their heirs, successors, executors or administrators, do hereby covenant, and agree to and with said part y of the second part
at the delivery of these presents that they are lawfully seized in their own right of an absolute and
indefeasible estate of inheritance in fee simple, of and in, all and singular, the above granted and described premises,
with appurtenances; that the same are free, clear and discharged and unincumbered of and from all former and other
grants, titles, charges, estates, judgments, taxes, assessments, and encumbrances, of whatsoever nature and kind
EXCEPT

and that they will WARRANT AND FOREVER DEFEND the same unto said part y of the second
part, ^{successors} ~~its heirs~~, and assigns, against said part 1st of the first part their heirs, successors and assigns,
and all and every person or persons whomsoever, lawfully claiming or to claim the same.

IN WITNESS WHEREOF, The said part 1st of the first part have hereunto set their hands the day
and year first above written.

Witness

Address

Witness

Address

Robert Bebb
Florence A. Bebb
Forrest Bebb
Mary P. Bebb
Maurice R. Bebb
Helen V. Bebb

State of Oklahoma, County of Muskogee
I hereby certify that this instrument
was filed for record in my office

JAN 7 1946

GENERAL WARRANTY DEED

THIS INDENTURE, Made this 27th day of December, 1945, between THE PURE OIL COMPANY, a corporation, (organized under the laws of the State of Ohio), successor in interest to the Oklahoma Producing and Refining Corporation of America and Crown Petroleum Company, a corporation, Party of the First Part, and R.L. JUERGENS and ALEX MATHEWS, Parties of the Second Part.

WITNESSETH, That in consideration of the sum of Four Thousand (\$4,000) Dollars, the receipt of which is hereby acknowledged, said party of the first part does by these presents grant, bargain, sell and convey unto said parties of the second part, their heir, executors or administrators, all of the following described real estate situated in the County of Muskogee, State of Oklahoma, to-wit:

Parcel No. 1- Lots 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, and 11 in Block 67, and Lots 1, 2, 3, 4, 5, and 6 in Block 72, in the City of Muskogee, Muskogee County, State of Oklahoma, according to the U.S. Government survey thereof; and

Parcel No. 2- Beginning at a point on the southerly bank of Coody Creek, which is on the east line of Fourth Street of the original townsite of Muskogee, Oklahoma, 298 feet south of the south line of Lincoln Avenue; thence in a southerly direction on a 6° 1 minute curve whose radius is 952.9 feet, a distance of 400.1 feet; thence south 25°, 45 minutes west 1378.55 feet to the intersection of this line with the east and west mid-section line of Section 34; thence due south along the north and south mid-section line of the southeast quarter of Section 34, 1320 feet, more or less; thence due east along the east and west mid-section line of the southeast quarter of Section 34, 376 feet more or less; thence meandering along the center of Coody Creek in a southerly direction a distance of 900 feet more or less to a point 104 feet west of the west boundary of the right-of-way of the Missouri, Kansas & Texas Railroad Company; thence in a northerly direction parallel to said right-of-way of said Railroad company a distance of 208 feet; thence in a southeasterly direction at right angles to said right-of-way of said railroad company a distance of 104 feet to the west boundary of said right-of-way of said railroad Company; thence in a northeasterly direction along the west boundary of said right-of-way of said railroad company a distance of 1969.6 feet more or less to a point on the east and west mid-section line of Section 34 being 130.33 feet west along said section line from the east line of Section 34; thence west along east and west mid-section line of Section 34 a distance of 528.5 feet more or less; thence meandering along west bank of Coody Creek in a northerly direction to the point of beginning, all in Section 34, Township 15 North, Range 18 East of the Indian Base and Meridian, in Muskogee County, State of Oklahoma.

TO HAVE AND TO HOLD THE SAME, together with all and singular the tenements, hereditaments and appurtenances thereto belonging or in any wise appertaining forever.

And said The Pure Oil Company, its successors or assigns, do hereby covenant, promise and agree to and with said parties of the second part at the delivery of these presents it is lawfully seized in its own right of an absolute

L E A S E

BOOK 584 PAGE 469

233546

THIS LEASE, made and entered into this 13th day of August, 1928, by and between the City of Muskogee, a municipal corporation, party of the first part, and The Pure Oil Company, a corporation, organized under the laws of the State of Ohio, party of the second part, WITNESSETH:

The said first part, in consideration of the covenants and agreements hereinafter set out, does by these presents demise, lease, and let unto the second party, the following described property, owned by the City of Muskogee, situated in the County of Muskogee, and the State of Oklahoma, to-wit:

A triangular piece of ground located on the West side of Cherokee Street, bounded on the East by said Cherokee Street, on the Southwest by the M. K. & T. Railway, and on the North by the land of the Muskogee Refining Company, consisting of 1.1 acres and lying in the N.W. Corner of the N. W. Quarter of the S. W. Quarter of Section 35, Township 15 North, Range 18 East.

TO HAVE AND TO HOLD the same unto the party of the second part for the term of ninety-nine (99) years, beginning August 13, 1928, and ending August 13, 2027.

The party of the second part, in consideration for said lease, hereby agrees to pay to the party of the first part as rental for the above described premises, the sum of One (1.00) Dollar per month, such rent to be paid semi-annually.

IT IS FURTHER AGREED that the party of the second part shall not assign this lease without consent of the City Council of the said party of the first part, and it is also agreed that upon failure to pay the rentals for the period of three months, after the same become due, or to reasonably comply with the other terms and conditions of this lease, upon the part of the party of the second part, then the party of the first part may declare this lease at an end, and void, and may enter and take possession of the premises under the conditions herein set forth.

IT IS FURTHER AGREED and UNDERSTOOD that this property has heretofore been leased to the Oklahoma Engineering and Foundry Company and later assigned to Muskogee Iron Works, a corporation, which lessee had the right to and did erect and construct upon said premises offices and buildings, machine shops, brass and cast iron foundries and other buildings necessary for the equipment of an up to date plant of its kind and for the storage of materials, with the right upon the part of said lessee at the termination of said lease to remove from said premises all such buildings, structures and equipment placed thereon within a period of ninety days after such termination; th

and that the Muskogee Iron Works, present owner of said lease has sold to the party of the second part, its successors and assigns, all buildings, structures, and equipment of whatsoever kind above mentioned upon the above described land; and said party of the second part has applied to the City Council of the City of Muskogee, for the execution of a new rental contract or lease of such assigned rental contract, and said City Council did, by resolution, duly adopt on August 13, 1928, authorize the Mayor and City Clerk to execute such rental contract for a period of ninety-nine (99) years from August 13, 1928.

IT IS FURTHER AGREED that if the party of the second part fails or refuses to operate the plant upon the premises herein leased for as long as two months during any calendar year, this lease shall terminate, and become void, and said property shall revert to the City of Muskogee, except as to the buildings, structures, and equipment thereon, placed or owned either by the Oklahoma Engineering & Foundry Company, the Muskogee Iron Works, or by the party of the second part; all of which buildings, structures and equipment shall be considered and treated as the exclusive property of the party of the second part, its successors, and assigns; and said party of the second part, its successors and assigns, shall have the privilege to remove same within ninety days from the date of the written notification given by the first party to the second party of the action of the City Council declaring such lease at an end, under the provisions herein stated.

IT IS FURTHER agreed that in consideration of the City of Muskogee, the first party consenting to the assignment from the Muskogee Iron Works to the Pure Oil Company, party of the second part, of the lease originally given to the Oklahoma Engineering and Foundry Company, and later assigned to the Muskogee Iron Works, a corporation, and the execution of this lease, it is stipulated and agreed that the party of the first part has a right of way or easement and the right and privilege to maintain that certain railway spur and connection now existing on the premises described above or immediately to the East thereof and which railway spur connects with the M. K. & T. Railway, and that such right of way, power, privilege or easement shall exist as to said spur throughout the term of this lease, with the full right of the party of the first part to enter in and upon the property adjacent to the said spur for the purpose of loading or unloading chattels or property of any nature whatsoever.

The covenants and agreements in this lease shall extend to and be binding upon the successors and assigns of the parties hereto.

WITNESS our hands and seals the day and year first above written.

THE CITY OF MUSKOGEE,

BY J. P. Gibson
Party of the First Part.

Attest:



OIL AND GAS LEASE

BOOK 1402 PAGE 33

WITH POOLING AND REGULATION CLAUSES

3rd

September

75

AGREEMENT, Made and entered into this 3rd day of September 1975

by and between Yaffe Iron & Metal Co., Inc., an Oklahoma Corporation

of Muskogee, Okla.

hereinafter called lessor (whether one or more), and

McOil, a Partnership

hereinafter called lessee.

WITNESSETH That the said lessor, for and in consideration of One (\$1.00) and O.V.C., - - - - - DOLLARS cash in hand paid, receipt of which is hereby acknowledged and of the covenants and agreements hereinafter contained on the part of lessee to be paid, kept and performed, has granted, demised, leased and let and by these presents does grant, demise, lease and let unto the said lessee, for the sole and only purpose of mining and operating for oil and gas, and laying pipe lines, and building tanks, power stations and structures thereon to produce, save and take care of said products, all that certain tract of land situated in the County of Muskogee

State of Oklahoma described as follows, to-wit:

See Exhibit "A" attached hereto and made a part of this lease.

of Section 34 Township 15 North Range 18 East and containing Six Months - March 3, 1976 acres, more or less.

It is agreed that this lease shall remain in force for a term of Six Months - March 3, 1976 from this date, and as long thereafter as oil or gas, or either of them, is produced from said lands by the lessee.

In consideration of the premises the said lessee covenants and agrees:

To deliver to the credit of lessor, free of cost, in the pipe lines or tanks to which he may connect his wells, the equal one-eighth part of all oil produced and saved from said leased premises.

And where gas only is found, one-eighth of the value of all raw gas at the mouth of the well, while said gas is being used or sold off the premises, payment for gas so used or sold to be made monthly. The lessor to have gas free of cost from any gas well on said premises for all atones and all inside lights in the principal dwelling house on said land by making his own connections with the well at his own risk and expense.

To pay lessor for gas produced from any oil well and used off the premises one-eighth of the value of the raw gas at the mouth of the well, payment for the gas so used or sold to be made quarterly.

If no well be commenced on said land on or before the 3rd day of March 1976, the lease shall terminate as to both parties, unless the lessee on or before that date shall pay or tender to the lessor, or to the lessor's credit in the

Bank at _____, or its successors, which shall continue as the depository regardless of changes in the ownership of said land, the sum of _____

DOLLARS, which shall operate as a rental

and cover the privilege of deferring the commencement of a well for _____ months from said date. In like manner and upon like payments or tenders the commencement of a well may be further deferred for like period of the same number of months successively. And it is understood and agreed that the consideration first recited herein, the down payment, covers not only the privileges granted to the date when said first rental is payable as aforesaid, but also the lessee's option of extending that period as aforesaid, and any and all other rights conferred.

Lessee, at its option, is hereby given the right and power to pool or combine the acreage covered by this lease or any portion thereof with other land, lease or leases in the immediate vicinity thereof, when in lessee's judgment it is necessary or advisable to do so in order to properly develop and operate said lease premises so as to promote the conservation of oil, gas or other minerals in and under and that may be produced from said premises, such pooling to be of tracts contiguous to one another and to be into a unit or units not exceeding 40 acres each in the event of an oil well, or into a unit or units not exceeding 640 acres each in the event of a gas well. Lessee shall execute in writing and record in the conveyance records of the county in which the land herein leased is situated an instrument identifying and describing acreage. The entire acreage so pooled into a tract or unit shall be treated, for all purposes except the payment of royalties on production from the pooled unit, as if it were included in "this lease." If production is found on the pooled acreage, it shall be treated as if production is had from this lease, whether the well or wells be located on the premises covered by this lease or not. In lieu of the royalties elsewhere herein specified, lessor shall receive on production from a unit so pooled only such portion of the royalty stipulated herein as the amount of his acreage placed in the unit or his royalty interest therein on an acreage basis, bears to the total acreage so pooled in the particular unit involved.

Should the first well drilled on the above described land be a dry hole, then, and in that event, if a second well is not commenced on said land within twelve months from the expiration of the last rental period which rental has been paid this lease shall terminate as to both parties, unless the lessee on or before the expiration of said twelve months shall resume the payment of rentals in the same amount and in the same manner as hereinabove provided. And it is agreed that upon the resumption of the payment of rentals, as above provided, that the last preceding paragraph hereof, governing the payment of rentals and the effect thereof, shall continue in force just as though there had been no interruption in the rental payments.

If said lessor owns a less interest in the above described land than the entire and undivided fee simple estate therein, then the royalties and rentals herein provided shall be paid the lessor only in the proportion which his interest bears to the whole and all undivided fee.

Lessee shall have the right to use, free of cost, gas, oil and water produced on said land for its operations thereon, except water from the wells of lessor.

When requested by lessor, lessee shall bury its pipe lines below plow depth.

No well shall be drilled nearer than 200 feet to the house or barn now on said premises, without the written consent of the lessor.

Lessee shall pay for damages caused by its operation to growing crops on said land.

Lessee shall have the right at any time to remove all machinery and fixtures placed on said premises, including the right to draw and remove casing.

If the estate of either party hereto is assigned, and the privileges of assigning in whole or part is expressly allowed—the covenants hereof shall extend to their heirs, executors, administrators, successors or assigns, but no change in the ownership of the land or assignment of rentals or royalties shall be binding on the lessee until after the lessee has been furnished with a written transfer or assignment or a true copy thereof; and it is hereby agreed that in the event this lease shall be assigned as to a part or as to parts of the above described lands and the assignee or assigns of such part or parts shall fail or make default in the payment of the proportionate part of the rents due from him or them, such default shall not operate to defeat or affect this lease in so far as it covers a part or parts of said lands upon which the said lessee or any assignee hereof shall make due payment of said rentals.

Lessor hereby warrants and agrees to defend the title to the lands herein described, and agrees that the lessee shall have the right at any time to redeem for lessor, by payment, any mortgages, taxes or other liens on the above described lands, in the event of default of payment by lessor, and be subrogated to the rights of the holder thereof.

All express or implied covenants of this lease shall be subject to all Federal and State Laws, Executive Orders, Rules or Regulations, and this lease shall not be terminated, in whole or in part, nor lessee held liable in damages, for failure to comply therewith, if compliance is prevented by, or if such failure is the result of any such Law, Order, Rule or Regulation.

Note: A reservation of 1/16th O.R.R.I., of 7/8ths W.I., is hereby granted to Edgar V. Sansing, 1304 East Okmulgee, Muskogee, Okla., 74401

In Testimony Whereof We Sign, this 3rd day of September 1975

Yaffe Iron & Metal Co., Inc., an Oklahoma Corporation

By _____ (SEAL)

Secretary _____ (SEAL)

(Seal) _____ (SEAL)

_____ (SEAL)

_____ (SEAL)

_____ (SEAL)

Exhibit "A", attached to bring a part of Oil & Gas Lease, dated Sept. 3, 1975, by and between Yaffe Iron & Metal Co., Inc., & McOill, a partnership

A parcel of land in Section 34, Township 15 North, Range 18 East Muskogee County, Oklahoma, more particularly described: Beginning at a point on the southerly bank of Coody Creek, which is on the East line of Fourth Street of the original Township of Muskogee, Oklahoma, 298 feet south of the South line of Lincoln Ave., Thence in a Southerly direction on a 6 degree 1 minute curve whose radius of 952.9 feet, a distance of 400.1 feet; Thence South 25 degrees 45 minutes West a distance of 1378.55 feet to the intersection of this line with the East and West mid-section line of Section 34; Thence due South along the North and South mid-section line of the Southeast Quarter of Section 34, a distance of 1320 feet, more or less; Thence due East along the East and West mid-section line of the Southeast Quarter of Section 34, a distance of 376 feet, more or less; Thence meandering along the center of Coody Creek in a Southerly direction a distance of 900 feet, more or less, to a point 104 feet West of the West boundary of the right-of-way of the Missouri, Kansas & Texas Railroad Company; Thence in a Northerly direction parallel to said right-of-way of said Railroad Company a distance of 208 feet; Thence in a Southeasterly direction at right angles to said right-of-way of said railroad company a distance of 104 feet to the West boundary of said right-of-way of said railroad Company; Thence in a northeasterly direction along the West boundary of said right-of-way of said railroad company a distance of 1969.6 feet, more or less, to a point on the East and West mid-section line of Section 34, being 130.33 feet west along said section line from the East line of Section 34; Thence West along the East and West mid-section line of Section 34, a distance of 528.5 feet, more or less, Thence meandering along the West bank of Coody Creek in a northerly direction to the point of beginning, LESS the following described tract, more particularly bounded and described as follows, to-wit:

Beginning at the point of intersection of the South line of the NE $\frac{1}{4}$ of SE $\frac{1}{4}$ and the west line of the Right-of-Way of the Missouri, Kansas & Texas railroad, which point is 749.6 feet West of the southeast corner of the NE $\frac{1}{4}$ of SE $\frac{1}{4}$ of Section 34, Township 15 North, Range 18 East, Thence North 24 degrees and 55 minutes East along the West right-of-way line of said Missouri, Kansas & Texas Railroad a distance of 115 feet, FOR A POINT OF BEGINNING Thence in a northwesterly direction along a line at right angles to said right-of-way line of the Missouri, Kansas and Texas railroad a distance of 76 feet; Thence in a Northwesterly direction a distance of 130.6 feet to a point (which point is located 160 feet in a northwesterly direction from said railroad right-of-way and which point is also located in a line that makes a right angle with said railroad right-of-way, said line intersecting the west right of way line at a point 215 feet in a northeasterly direction from the South line of said NE $\frac{1}{4}$ of SE $\frac{1}{4}$;) Thence Northeasterly along a line parallel with said railroad right-of-way a distance of 60 feet Thence Northwesterly at right angles to last described course a distance of 40 feet; Thence Northeasterly along a line parallel with said railroad right-of-way a distance of 563.5 feet; Thence Southeasterly at right angles to last described course a distance of 200 feet to a point in the West right-of-way line of said Railroad; Thence Southwesterly along said West right-of-way line of said Railroad a distance of 723.5 feet to the point of beginning.

Lots 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 and 11 in Block 67, and Lots 1, 2, 3, 4, 5 and 6 in Block 72 in the City of Muskogee according to the Government Survey thereof.

The complete mineral interest in said property resides ⁱⁿ Yaffe Iron and Metal Co., less leasehold interest currently in effect is that covering a tract of land comprising 1.336 acres in the SE $\frac{1}{4}$ of SE $\frac{1}{4}$ of Sec. 34 T15N R18E, and lying West and adjacent to the right-of-way of the Missouri, Kansas & Texas Ry. Co., said 1.336 acre tract being included in and subject to the Muskogee Unit Dutcher Sand approved by the Corporation Commission and effective at 7:00 A.M., April, 1960, Muskogee County, State of Oklahoma.

WHEREAS, a certain lease, dated 24th day of December, 19 60, made by Ray D. Richerson, as Lessor to SKELLY OIL COMPANY, as Lessee, and covering the following described realty in the County of Muskogee, State of Oklahoma, to wit:

Part of the East $\frac{1}{2}$ of NW $\frac{1}{4}$ of SE $\frac{1}{4}$ of Sec. 34 Twp 15 North Range 18, East of Indian Meridian, lying East of the right of way of the M.K. & T. Railway. Known as 1617 So. Cherokee.

was recorded on the 17th day of January, 19 61, at 8:00 o'clock AM at Page 546 in Book 1144 of the records of said County; and

WHEREAS, in accordance with the terms and provisions of said Lease, the same has been cancelled and terminated by the said Lessee;

NOW THEREFORE, KNOW ALL MEN BY THESE PRESENTS: That Skelly Oil Company, said Lessee, does hereby release and relinquish all rights under the above described lease and surrenders possession of above described premises to the lawful owner thereof, his heirs and assigns.

Dated this 27th day of March, 19 62.

State of Oklahoma, Muskogee County.
I hereby certify that this instrument was filed for record in my Office

SKELLY OIL COMPANY

APR 11 1962

By Wayne A. Dirks

J. H. TAYLOR, County Clerk
By Deputy Deputy

Title ATTORNEY-in-FACT

STATE OF MISSOURI

COUNTY OF JACKSON

ss

On this 27 day of March, 19 62, before me personally appeared WAYNE A. DIRKS, to me known to be the person who executed the foregoing instrument in behalf of SKELLY OIL COMPANY as its Attorney-in-Fact and acknowledged that he executed the same as the free act and deed of said Skelly Oil Company.

In Testimony Whereof I have hereunto set my hand and affixed my official seal at my office in said county and state the day and year last above written.



My Term expires:

My Commission Expires August 1, 1963

William M. Garland
Notary Public

196

2007

STATE OF OKLAHOMA
MUSKOGEE COUNTY
FILED OR RECORDED

685669

1714 232

1983 DEC 27 AM 10:41

BETTY PAGE
COUNTY CLERK

QUIT CLAIM DEED

THIS INDENTURE, made this 27th day of December, 1983, between YAFFE IRON & METAL CO., INC., a corporation, party of the first part, and THE LAND REAL ESTATE CORPORATION, a corporation, party of the second part;

WITNESSETH, that said first party, in consideration of the sum of ONE and NO/100 (\$1.00) Dollars to it in hand paid, the receipt of which is hereby acknowledged, does hereby quitclaim, grant, bargain, sell and convey unto the said second party all its right, title, interest, estate, and every claim and demand, both at law and in equity, in and to all the following described property situate in Muskogee County, State of Oklahoma, to-wit:

A parcel of land in Section Thirty-four (34), Township Fifteen (15) North, Range Eighteen (18) East of the Indian Base and Meridian, more particularly bounded and described as follows:

BEGINNING at a point on the Southerly bank of Coody Creek, which is on the East line of Fourth Street of the original Townsite of Muskogee, Oklahoma, 298 feet South of the South line of Lincoln Avenue;
THENCE in a Southerly direction on a 6°1' curve whose radius of 952.9 feet, a distance of 400.1 feet;
THENCE South 25°45' West a distance of 1378.55 feet to the intersection of this line with the East and West mid-section line of Section 34;
THENCE due South along the North and South mid-section line of the Southeast Quarter of Section 34, a distance of 1320 feet, more or less;
THENCE due East along the East and West mid-section line of the Southeast Quarter of Section 34, a distance of 376 feet, more or less;
THENCE meandering along the center of Coody Creek in a Southerly direction a distance of 900 feet, more or less, to a point 104 feet West of the West boundary of the right of way of the Missouri, Kansas & Texas Railroad Company;
THENCE in a Northerly direction parallel to said right of way of said Railroad Company a distance of 208 feet;
THENCE in a Southeasterly direction at right angles to said right of way of said railroad company a distance of 104 feet to the West boundary line of said right of way of said railroad company;
THENCE in a northeasterly direction along the West boundary of said right of way of said railroad company a distance of 1969.6 feet, more or less, to a point on the East and West mid-section line of Section 34, being 130.33 feet west along said section line from the East line of Section 34;
THENCE West along the East and West mid-section line of Section 34, a distance of 528.5 feet, more or less;
THENCE meandering along the West bank of Coody Creek in a Northerly direction to the point of beginning,

LESS the following described tract, more particularly bounded and described as follows, to-wit:

BEGINNING at the point of intersection of the South line of the Northeast Quarter of the Southeast Quarter and the West line of the Right of Way of the Missouri, Kansas and Texas Railroad, which point is 749.6 feet West of the Southeast corner of the Northeast Quarter of the Southeast Quarter of Section 34, Township 15 North, Range 18 East;
THENCE North 24°55' East along the West right of way line of said Missouri, Kansas and Texas Railroad a distance of 115 feet; for a point of beginning;

EXHIBIT "A" TO CONVEYANCE OF OKL AND GAS PROPERTIES
FROM TOM B. McQUEEN d/b/a McOIL COMPANY and GLADILEE
McQUEEN TO EDDY L. PATTERSON COVERING PROPERTIES
LOCATED IN MUSKOGEE COUNTY, OKLAHOMA

EFFECTIVE JUNE 1, 1985

- X 1) 344-6248 - Oil and Gas Lease from Warren R. Mooney, et ux., Lessors, to Sohio Petroleum Company, Lessee, dated September 4, 1959, recorded in Book 1143, Page 529 of the Records of Muskogee County, Oklahoma, covering the following described land in said County: +2081

SE/4 SW/4 Section 34-T15N-R18E. ✓

- X 2) 344-6249 - Oil and Gas Lease from J. D. Utley, a widower, Lessor, to Sohio Petroleum Company, Lessee, dated October 6, 1959, recorded in Book 1121, Page 83 of the Records of Muskogee County, Oklahoma, covering the following described land in said County:

South one-half (S/2) of Lot 4 and all of Lots 5 and 6 in the Johnson Addition of the City of Muskogee, Oklahoma, as shown on the plat thereof, located therein, Section 34-T15N-R18E. ✓

- X 3) 344-6252 - Oil and Gas Lease from J. R. Cospers, et ux., Lessor, to Sohio Petroleum Company, Lessee, dated October 7, 1959, recorded in Book 1125, Page 240, and re-recorded in Book 1158, Page 236 of the Records of Muskogee County, Oklahoma, covering the following described land in said County:

Beginning at a point 210' South of the NE corner of the SE/4 of the SE/4; thence West 210' parallel to the North line of the quarter section for a point of beginning; thence South parallel to the East line of the quarter section, a distance of 210'; thence West parallel to the North line of the quarter section, a distance of 346.4' to a line parallel to the Right-of-Way of the MK&T Railroad, 155' East and perpendicular to said Right-of-Way; thence Northeasterly N 24 degrees, no minutes East 230.3' to a point on the line parallel to the Right-of-Way; thence East 250' to the point of beginning, containing 2 acres more or less, in Section 34-T15N-R18E. ✓

- X 4) 344-6253 - Oil and Gas Lease from Ethel M. Gardner, et vir, Lessor, to Sohio Petroleum Company, Lessee, dated November 19, 1959, recorded in Book 1125, Page 242 of the Records of Muskogee County, Oklahoma, covering the following described land in said County:

Lots 13 and 14, Block 25 of Garrett Heights Addition to the City of Muskogee, Oklahoma, as shown on the plat thereof, Section 34-T15N-R18E. ✓

- 5) 344-6254 - Oil and Gas Lease from Coburn Manufacturing Company, Inc., a corporation, Lessor, to Sohio Petroleum Company, Lessee, dated December 1, 1959, recorded in Book 1125, Page 244 of the Records of Muskogee County, Oklahoma, covering the following described land in said County:

All NW/4 of SE/4 Section 33-T15N-R18E, except the following lots located in the area platted as Indian Drive Sub-Division to the City of Muskogee, Oklahoma: Lots 2 and 4 Block I; Lots 1, 2 and 3 Block II; Lot 4 Block III; Lots 2, 6 and 11 Block IV; Lot 4 Block V and Lots 3 and 6 Block VI. ✓

CONVEYANCE OF OIL AND GAS PROPERTIES

KNOW ALL MEN BY THESE PRESENTS:

That TOM G. McQUEEN d/b/a McOIL; TOM G. McQUEEN and CLARILEE McQUEEN, husband and wife, TOM G. McQUEEN, Partner, CLARILEE McQUEEN, Partner, 2111 South 24th, Muskogee, Oklahoma 74401, hereinafter called "Grantor", in consideration of Ten Dollars (\$10.00) and other valuable consideration to it paid, the receipt of which is hereby acknowledged, does hereby GRANT, SELL, ASSIGN, TRANSFER and CONVEY unto EDDY L. PATTERSON, 4109 East 72nd Place Tulsa, Oklahoma 74136, his heirs, successors and assigns, hereinafter called "Grantee", all of Grantor's right, title and interest in, to and under the following:

- A) The Oil and Gas Leases and lands in Muskogee County, Oklahoma, specifically described in Exhibit "A", attached hereto and made a part hereof;
- B) The wells, casing, tubing, fittings, rods, tanks, separators, pumping equipment, flow lines, salt water disposal facilities, and all other structures, machinery, materials, equipment, facilities and personal property of any kind located upon the lands described in Exhibit "A" that is used or held for use in connection with operations thereof for, and production therefrom of, oil, gas or other minerals, and the gathering, storing, treating, transporting, marketing or other handling of such production.
- C) All surface leases, easements, rights-of-way and any other rights in lands used or held for use in connection with operations for, or production of oil, gas or other minerals from the lands described in Exhibit "A" or not, or in the gathering, storing, treating, transporting, marketing or other handling of such production.

THIS CONVEYANCE IS MADE SUBJECT TO:

- A) All of the terms and conditions of the oil and gas leases described in Exhibit "A";
- B) The plan of unitization, option agreements, overriding royalty interests, and other agreements, contracts or instruments, if any, described or referred to in Exhibit "A"; and
- C) All agreements, contracts, instruments, overriding royalties, and other burdens of record in Muskogee County, Oklahoma, which relate to or affect the leases, lands, property or interests specifically described in Exhibit "A".

TO HAVE AND TO HOLD the same unto said Grantee, his heirs, successors and assigns, forever.

From and after the effective date hereof, the Grantee shall assume all obligations and perform all duties resulting from the ownership of the leasehold interests covered by the leases conveyed hereby or imposed by any governmental authority asserting jurisdiction over the lands covered by said leases; shall be solely responsible for all operations conducted on said lands; and shall hold Grantor harmless from any and all claims for

County, Muskogee, Oklahoma

554

210

376483

WARRANTY DEED

TO JOINT TENANTS, WITH RIGHT OF

SURVIVORSHIP

BOOK 947 PAGE 408

Know All Men by These Presents:

That William Yaffe and Margaret Yaffe, husband and wife; and
Ben Yaffe and Vivian Yaffe, husband and wife
of Fort Smith, Arkansas

, in consideration of the sum of
One Dollar and Other Valuable Considerations----- DOLLARS,

in hand paid, the receipt of which is hereby acknowledged, hereby grant, bargain, sell and convey unto-----

Joseph A. Yaffe and Rose F. Yaffe, husband and wife,

of Muskogee, Oklahoma, as Joint Tenants with right of survivorship

and not as Tenants in Common, the following described real property and premises situate in-----

Muskogee County, Oklahoma, to-wit:

Beginning at a point on the Southerly bank of Coody Creek, which is on the East line of Fourth Street of the original townsite of Muskogee, Oklahoma, Two Hundred Ninety-eight (298) feet South of the South line of Lincoln Avenue; thence in a Southerly direction of a Six (6°) degrees, One (1') Minute curve whose radius is Nine Hundred Fifty-two and nine-tenths (952.9) feet, a distance of Four Hundred and one-tenth (400.1) feet; thence South Twenty-five (25°) degrees, forty-five (45') Minutes West Thirteen Hundred Seventy-eight and fifty-five hundredths (1378.55) feet to the intersection of this line with the East and West Mid-section line of Section Thirty-four (34); thence due South along the North and South Mid-section line of the Southeast Quarter of Section Thirty-four (34), Thirteen Hundred Twenty (1320) feet, more or less; thence due East along the East and West Mid-section line of the Southeast Quarter of Section Thirty-four (34), Three Hundred Seventy-six (376) feet more or less; thence meandering along the center of Coody Creek in a Southerly direction a distance of Nine Hundred (900) feet more or less to a point One Hundred Four (104) feet West of the West boundary of the Right of way of the Missouri, Kansas & Texas Railroad Company; thence in a Northerly direction parallel to said Right-of-way of said Railroad Company a distance of Two Hundred Eight (208) feet; thence in a Southeasterly direction at right angles to said Right-of-way of said Railroad Company a distance of One Hundred Four (104) feet to the West boundary of said Right-of-way of said Railroad Company; thence in a Northeasterly direction along the West boundary of said Right-of-way of said Railroad Company a distance of Nineteen Hundred Sixty-nine and six-tenths (1969.6) feet more or less to a point on the East and West Mid-section line of Section Thirty-four (34), being One Hundred Thirty and thirty-three hundredths (130.33) feet West along said Section line from the East line of Section Thirty-four (34); thence West along East and West mid-section line of Section Thirty-four (34) a distance of Five Hundred Twenty-eight and five-tenths (528.5) feet more or less; thence meandering along the West bank of Coody Creek in a Northerly direction to the point of beginning. All in Section Thirty-four (34), Township Fifteen (15) North, Range Eighteen (18) east of the Indian Base and Meridian, in Muskogee County, State of Oklahoma.

AND West 65 feet of Lot
Lots Five (5) and Six (6) in Block Four (4) in The Highlands, an
Addition to the City of Muskogee, Muskogee County, Oklahoma.

State of Oklahoma MUSKOGEE County
I hereby certify that this instrument was filed for
record in my office at 11:45 M. AUG 12 1950
and duly recorded in Book 947, Page 408
Jewell Lomon County Clerk
By [Signature] Deputy
(Seal)

908945

34-15-18

88

24622

QUIT CLAIM DEED

(Corporate)

KNOW ALL MEN BY THESE PRESENTS:

That **Yaffee Iron & Metal Co., Inc.**, a corporation, party of the first part. In consideration of the sum of One and no/100 dollars and other valuable considerations, in hand paid, the receipt of which is hereby acknowledged, do hereby grant, bargain, sell and convey unto **the Record Owners**, party of the second part, the following described real property and premises situate in Muskogee County, State of Oklahoma, to-wit:

A tract of land located in the NE/4 of the SE/4 of Section 34, Township 15 North, Range 18 East of the Indian Meridian, Muskogee County, Oklahoma, more particularly described as follows:

Beginning at a point on the Westerly line of the M.K.&T. right of way that is 115 feet Northeasterly from the point of intersection of said West line of said railroad with the South line of said NE/4 of SE/4 of said Section 34; thence North 24 degrees 55' East along the Westerly line of said railroad right of way for a distance of 723.5 feet; thence in a Northwesternly direction along a line that is at right angles to said Westerly line of the railroad for a distance of 200 feet; thence in a Southwesterly direction along a line that is parallel with the Westerly line of said railroad right of way for a distance of 563.5 feet; thence Southeasterly along a line that is at right angles to the last described course for a distance of 40 feet; thence in a Southwesterly direction along a line that is parallel with the Westerly line of said railroad for a distance of 60 feet; thence in a Southeasterly direction for a distance of 130.6 feet to a point that is 76 feet Northwesternly from the point of beginning; thence in a Southeasterly direction for a distance of 76 feet to the point of beginning.

BOOK PAGE

2632 407



together with all the improvements thereon and the appurtenances thereunto belonging.

TO HAVE AND TO HOLD said described premises unto the said party of the second part, and to the heirs and assigns, forever.

Signed and delivered this 27th day of April, 1999.

YAFFEE IRON & METAL CO., INC.

By: Herb M. Cutchner President

KAREN ANDERSON
COUNTY CLERK

MAY 5 4 05 PM '99

STATE OF OKLAHOMA
MUSKOGEE COUNTY
FILED OR RECORDED

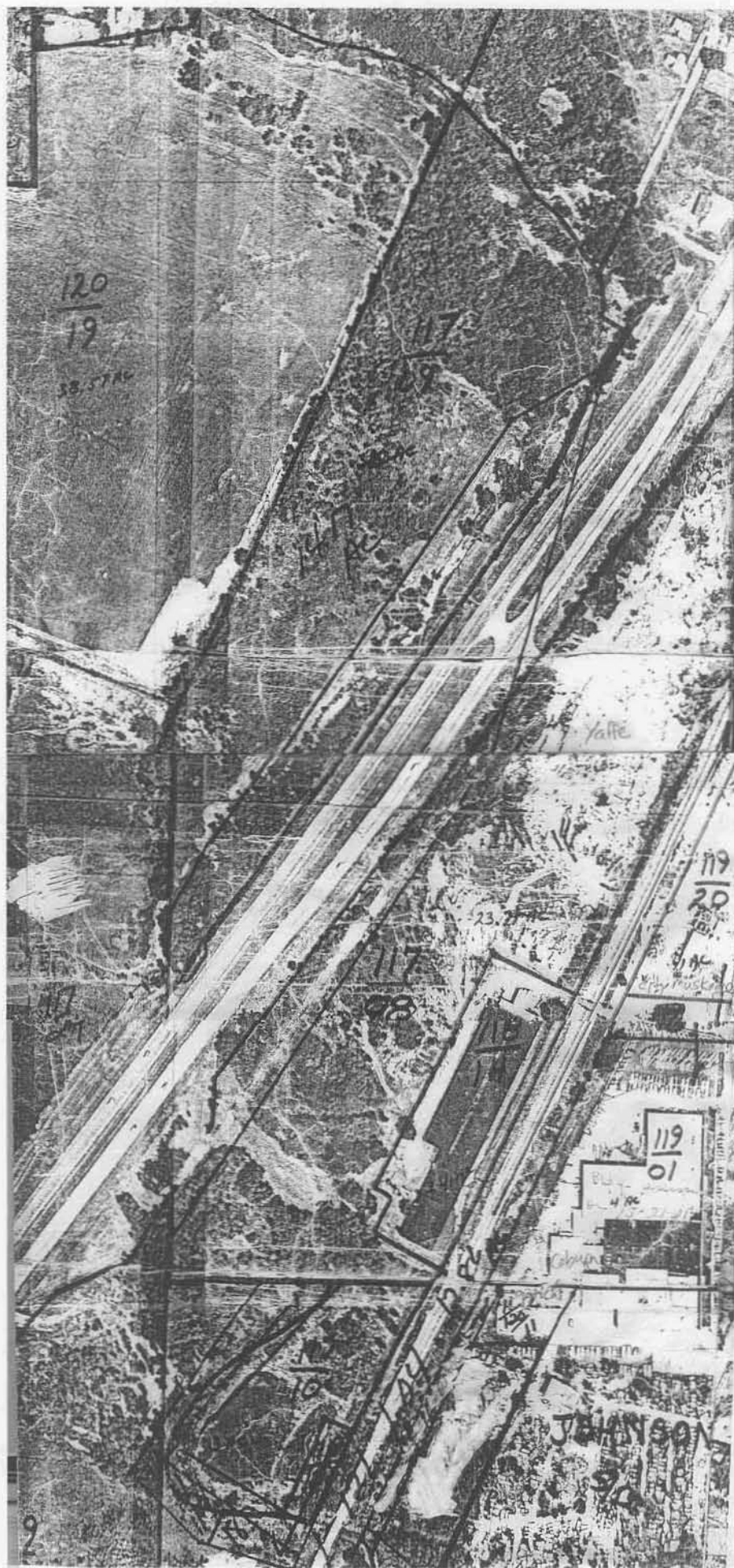
CORPORATION ACKNOWLEDGMENT-OKLAHOMA

STATE OF)
Oklahoma)ss.
COUNTY OF)
Muskogee

Before me, a Notary Public in and for said County and State, on this 27th day of April, 1999, personally appeared Herb M. Cutchner to me known to be the identical person who signed the name of the maker hereof to the within and foregoing instrument, it's President acknowledged to me that (he)(she)(they) executed (his)(her)(their) free and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and seal the day and year last above written.
My commission expires 4/14/03

Charles Thompson
Notary Public



MUSKOGEE COUNTY OWNERSHIP LISTING

Page 6

12/03/2004 01:20 PM

NAME / IDENTIFICATION / LOCATION	ADDRESS / LEGAL DESCRIPTION	CITY / STATE / VALUES			EXEMPT / HMSTD
KEFFER, KAREN					
0000-34-15N-18E-4-119-14 0011 0119 14 RUR - 0 , UNIT	T15N R18E S34 FARMLAND IN MUSKOGEE BEG NW CR SW SE S417.5 E313 N417.5 W313 TO BEG	LAND: IMPR: TOTL:	602 SD: 0 AC: 602 TY:	20A 3.0000 UA	
0000-34-15N-18E-4-119-15 0011 0119 15 RUR - 0 , UNIT	T15N R18E S34 FARMLAND IN MUSKOGEE BEG 417.5 S NW COR SW SE S420 E210 N420 W210	LAND: IMPR: TOTL:	401 SD: 0 AC: 401 TY:	20A 2.0000 UA	
KINGERY, JUDY					
0000-34-15N-18E-4-119-09 0011 0119 09 RUR - 0 , UNIT	T15N R18E S34 FARMLAND IN MUSKOGEE BEG 420 E OF SW/C SW SE E TO W LI OF MK&T R/W NLY AL SAID R/W TO N LI S2 SE W TO A PT 940.5 E NW/C S420 W210 N2.5 W102.33 S417.5 W417.5 S75 E210 S TO BEG LS 6.55 TO CITY,PURE OIL, HWY	LAND: IMPR: TOTL:	3,224 SD: 0 AC: 3,224 TY:	20A 18.2600 UA	
0000-34-15N-18E-4-119-14 0011 0119 14 RUR - 0 , UNIT	T15N R18E S34 FARMLAND IN MUSKOGEE BEG NW CR SW SE S417.5 E313 N417.5 W313 TO BEG	LAND: IMPR: TOTL:	602 SD: 0 AC: 602 TY:	20A 3.0000 UA	
0000-34-15N-18E-4-119-15 0011 0119 15 RUR - 0 , UNIT	T15N R18E S34 FARMLAND IN MUSKOGEE BEG 417.5 S NW COR SW SE S420 E210 N420 W210	LAND: IMPR: TOTL:	401 SD: 0 AC: 401 TY:	20A 2.0000 UA	
LAND REAL ESTATE CORP		%YAFFE, FANNE LU 3404 SEVERS		MUSKOGEE, OK 74401-0000	
0000-34-15N-18E-1-117-09 0011 0117 09 RUR - 0 , UNIT	T15N R18E S34 FARMLAND IN MUSKOGEE PT NE & NE SE BK1714 PG232	LAND: IMPR: TOTL:	1,337 SD: 0 AC: 1,337 TY:	20A 14.1700 UA	
0000-34-15N-18E-4-117-08 0011 0117 08 RUR - 0 , UNIT	T15N R18E S34 FARMLAND IN MUSKOGEE NE SE LY E HWY & W R/R LS 3.21AC	LAND: IMPR: TOTL:	5,601 SD: 0 AC: 5,601 TY:	20A 23.7100 UA	
0000-34-15N-18E-4-117-10 0011 0117 10 RUR - 0 , UNIT	T15N R18E S34 FARMLAND IN MUSKOGEE SE SE LY E & N OF CREEK & W R/R LS .50AC TO CITY	LAND: IMPR: TOTL:	709 SD: 0 AC: 709 TY:	20A 3.0000 UA	
LILES, JAMES D ETAL		& BURKETT, BILLIE 611 MARIETTA		MUSKOGEE, OK 74401-0000	
0000-34-15N-18E-4-117-18 0011 0117 18 MUS - 1400 S 6 , UNIT	T15N R18E S34 FARMLAND IN MUSKOGEE BEG AT SE COR LT 1 BLK 4 GRIFFIT H HTS W367.10 S120 E312.6 TH N ALG HWY 138.8 TO PT OF BEG	LAND: IMPR: TOTL:	3,800 SD: 5,538 AC: 9,338 TY:	20A 0.9500 UR	
M K & T R OF W		MUSKOGEE, OK 74401-0000			
0000-34-15N-18E-4-121-04 0011 0121 04 RUR - 0 , UNIT	T15N R18E S34 FARMLAND IN MUSKOGEE RIGHT OF WAY THRU S2 SE	LAND: IMPR: TOTL:	0 SD: 0 AC: 0 TY:	20A 0.0000 UE	EXEMPT
MANHATTAN CONSTRUCTION CO		5601 S 122ND EAST AVE		TULSA, OK 74146-6912	
0000-34-15N-18E-4-117-24 0011 0117 24 MUS - 0 , UNIT	T15N R18E S34 FARMLAND IN MUSKOGEE E½ NW SE LESS 5.15 ACRES HIGHWAY	LAND: IMPR: TOTL:	2,920 SD: 0 AC: 2,920 TY:	20A 14.8500 UA	
MUSKOGEE OT		, 00000-0000			

Reference 4



10-31-64

CUE-1FF-2



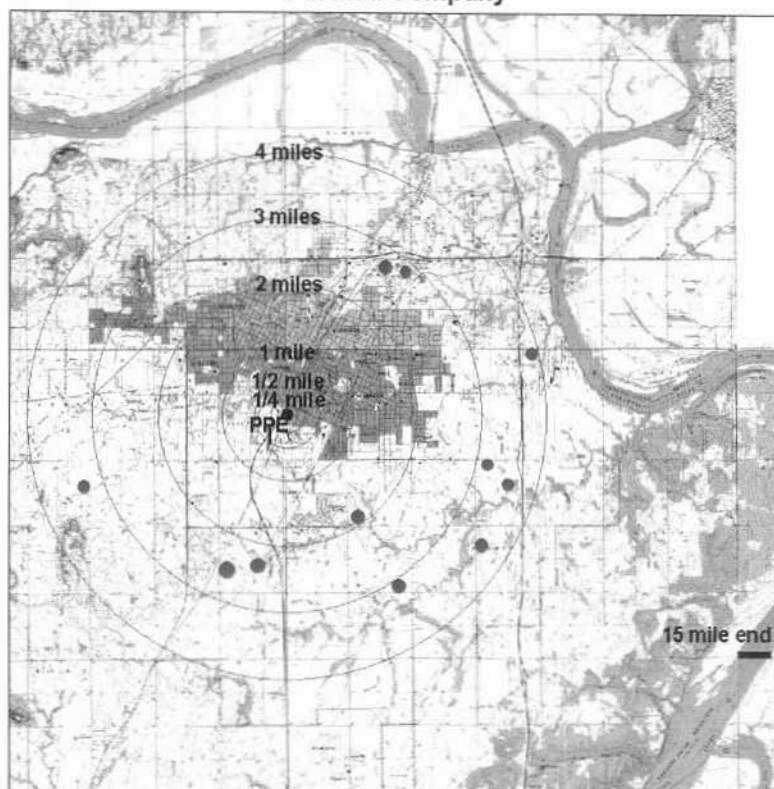


2003 Aerial Map

 = Site Boundry

Reference 5

Pure Oil Company



- Site Location
- Private Water Well
- Municipal Water Well

"Map Not to Scale"



0 0.5 1 2 Miles

Reference 6

APPENDIX E

STANDARD OPERATING PROCEDURE TO DETERMINE SITE LATITUDE AND LONGITUDE COORDINATES

HAZARDOUS SITE EVALUATION DIVISION
SITE ASSESSMENT BRANCH
U.S ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C.

September 1991

LATITUDE AND LONGITUDE CALCULATION WORKSHEET #2
LI USING ENGINEER'S SCALE (1/60)

SITE NAME: Pure Oil Company Site CERCLIS #: OK000202 4594
AKA: _____ SSID: _____
ADDRESS: Intersection of Madison Ave & Cherokee Street
CITY: Muskogee STATE: OK ZIP CODE: 74402
SITE REFERENCE POINT: middle of site
USGS QUAD MAP NAME: SE Muskogee TOWNSHIP: 15 N/S RANGE: 18 E/W
SCALE: 1:24,000 MAP DATE: 1974 SECTION: NW 1/4 NW 1/4 SW 1/4
MAP DATUM: (1927) 1983 (CIRCLE ONE) MERIDIAN: Indian
COORDINATES FROM LOWER RIGHT (SOUTHEAST) CORNER OF 7.5' MAP (attach photocopy):
LONGITUDE: 95° 15' ____ " LATITUDE: 35° 37' 30"
COORDINATES FROM LOWER RIGHT (SOUTHEAST) CORNER OF 2.5' GRID CELL:
LONGITUDE: 95° 20' ____ " LATITUDE: 35° 42' 30"

CALCULATIONS: LATITUDE (7.5' QUADRANGLE MAP)

A) NUMBER OF RULER GRADUATIONS FROM LATITUDE GRID LINE TO SITE REF POINT: 300

B) MULTIPLY (A) BY 0.3304 TO CONVERT TO SECONDS:

$$A \times 0.3304 = \underline{99.12} "$$

C) EXPRESS IN MINUTES AND SECONDS (1' = 60"):

$$D) \text{ ADD TO STARTING LATITUDE: } \underline{35^\circ 42' 30"} + \underline{1^\circ 39' 12"} =$$

SITE LATITUDE: 35° 43' 69.12"

CALCULATIONS: LONGITUDE (7.5' QUADRANGLE MAP)

A) NUMBER OF RULER GRADUATIONS FROM RIGHT LONGITUDE LINE TO SITE REF POINT: 448

B) MULTIPLY (A) BY 0.3304 TO CONVERT TO SECONDS:

$$A \times 0.3304 = \underline{148.012} "$$

C) EXPRESS IN MINUTES AND SECONDS (1' = 60"):

$$D) \text{ ADD TO STARTING LONGITUDE: } \underline{95^\circ 20' ____} + \underline{2^\circ 28' 01.2"} =$$

SITE LONGITUDE: 95° 22' 28.02"

INVESTIGATOR: A. Samuel

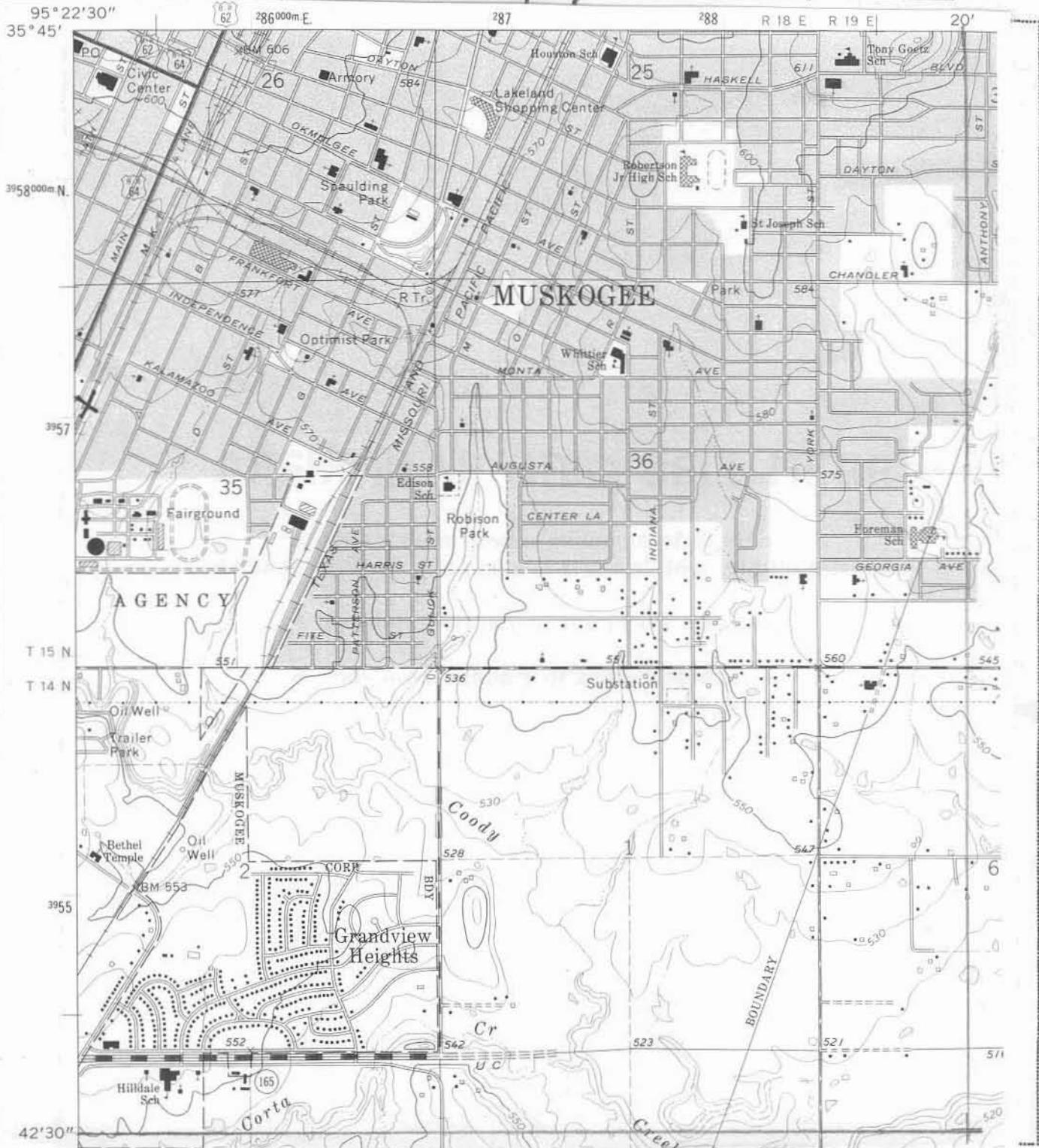
DATE: 11-8-04

SITE NAME:

Pure Oil Company

NUMBER:

OK00020214594



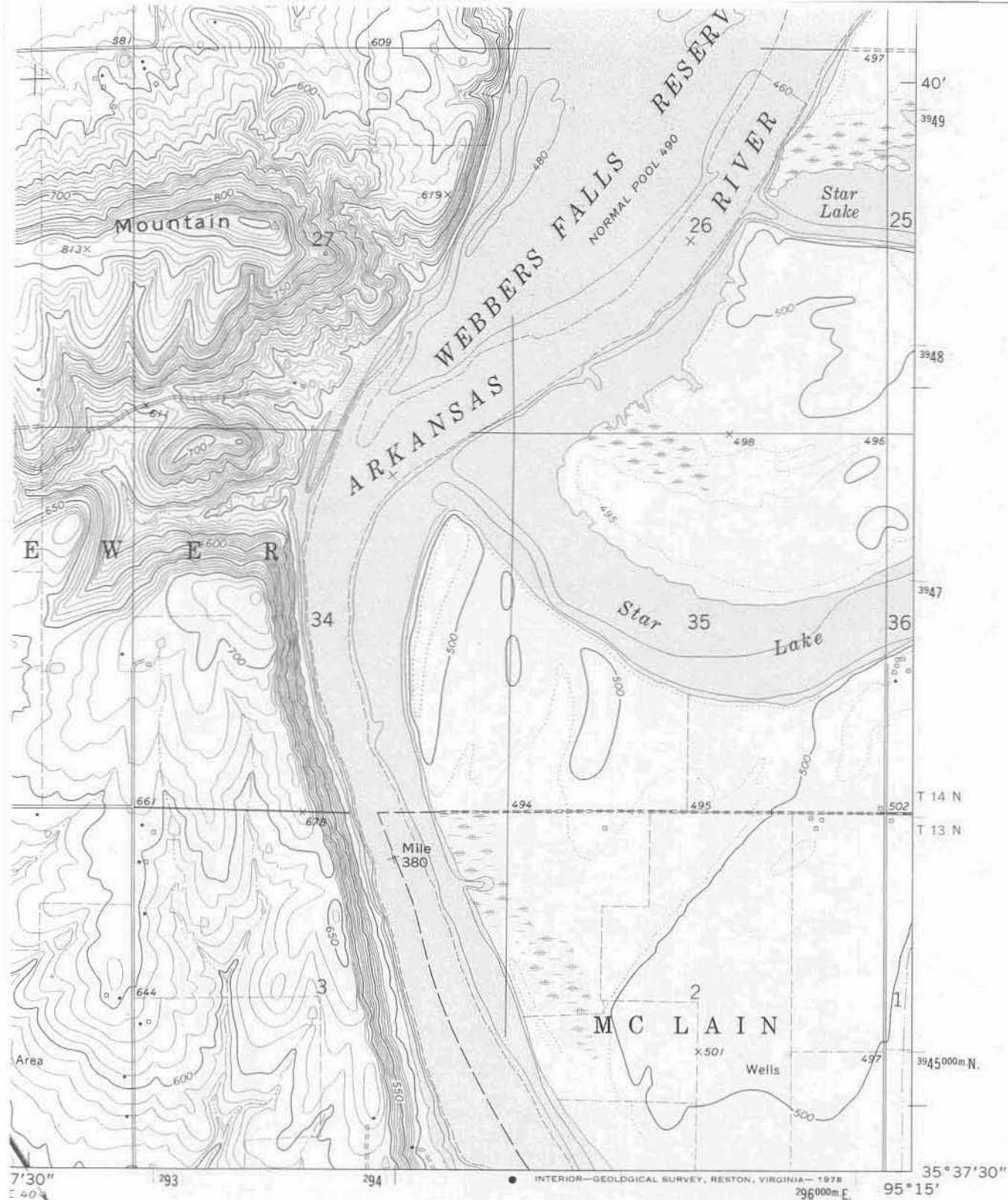
TOPOGRAPHIC MAP QUADRANGLE NAME:

Southeast Muskogee, Oklahoma

SCALE: 1:24,000

COORDINATES OF LOWER RIGHT-HAND CORNER OF 2.5-MINUTE GRID:

LATITUDE: 35° 42' 30" LONGITUDE: 95° 20' ..



ROAD CLASSIFICATION

- | | |
|------------------------------------|--|
| Primary highway,
hard surface | Light-duty road, hard or
improved surface |
| Secondary highway,
hard surface | Unimproved road |
- ☐ Interstate Route ☐ U. S. Route ☐ State Route



SOUTHEAST MUSKOGEE, OKLA.

NE/4 KEEFETON 15' QUADRANGLE
N3537.5—W9515/7.5

1974

AMS 6955 III NE—SERIES V883

(WEBB'S FALLS)
6955 II SW

Reference 7

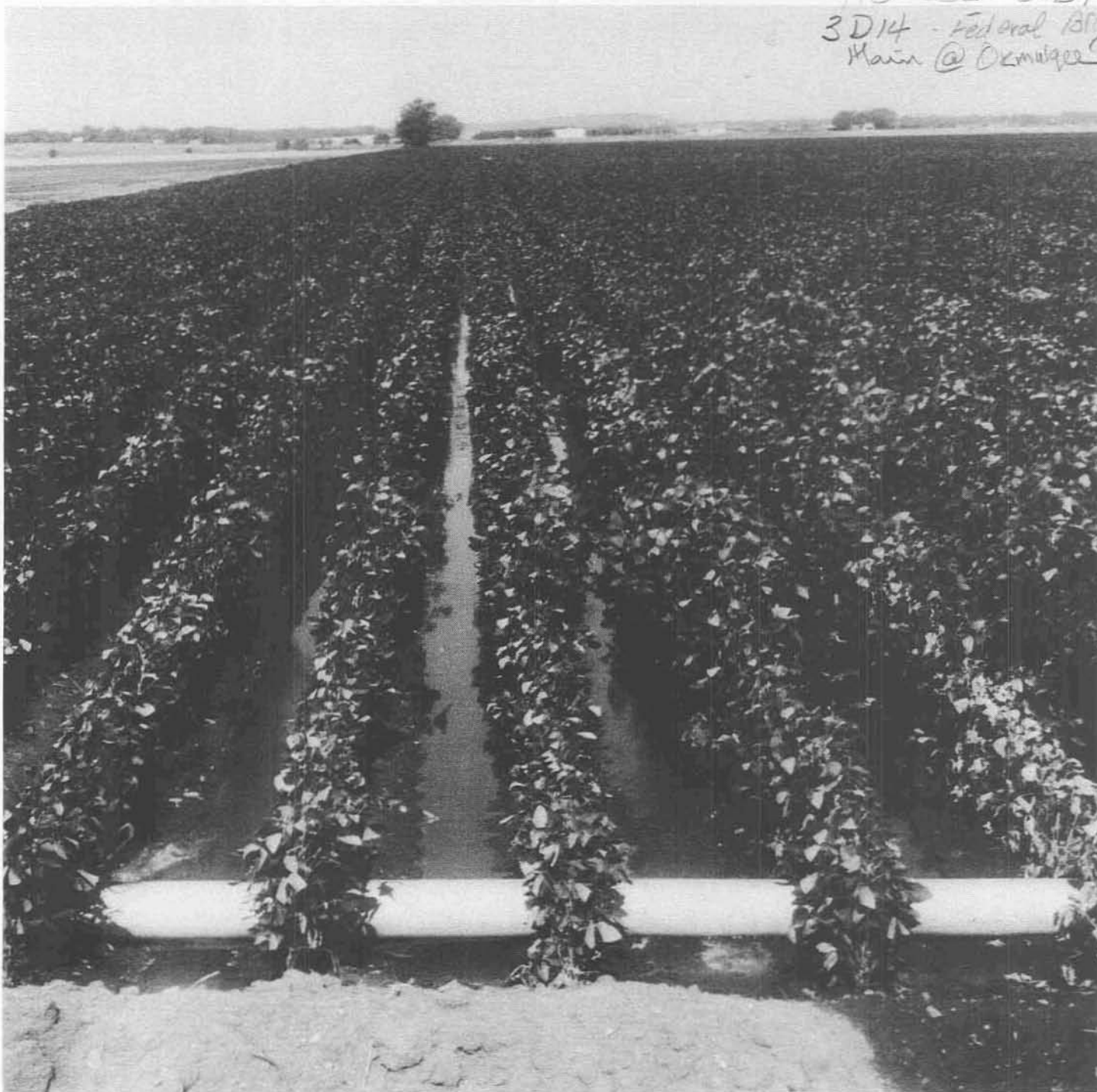
United States
Department of
Agriculture

Soil
Conservation
Service

In cooperation with
U.S. Department of Agriculture,
Forest Service
Oklahoma Agricultural
Experiment Station
and the Oklahoma
Conservation Commission

Soil Survey of Muskogee County, Oklahoma

John Harlow is Agent
918-682-0151
3D14 - Federal Bldg
Main @ Okmulgee



areas bought the land to increase the size of their farm units. They specialized in certain crops and livestock enterprises to increase efficiency. These farmers now have mechanized machinery, are using irrigation, and have converted cultivated fields to tame pasture.

Natural Resources

The natural resources of the county are mainly soil, water, timber, wild game and fish, and scenic beauty.

The soil is the most important natural resource in the county. It produces trees, crops, grass for livestock, and mineral resources. These support the dominant part of the economy in the county.

The water sources are Fort Gibson Lake, other reservoirs, and wells. Two water districts serve the county. The Arkansas River provides flood control, navigation, and recreation. Farm ponds are the source of water for livestock.

Timber production is decreasing. Most of the timber has been cut over, and the trees left to propagate the stands are of poor quality. Some areas are planted to trees. The timber is used mainly for lumber.

Shale is common in the county. It is mined for use on county roads and for commercial uses. Coal is mined in some areas, mainly in the southern part of the county. Shallow gas wells and some oil wells are located mainly in the eastern part of the county. Additional information on mineral and water resources in Muskogee County is in the Geology section.

Transportation and Industry

Muskogee County is served by a network of state and federal highways. U.S. Highways 69, 64, and 62 and the Muskogee Turnpike cross the county in a north-south direction. Interstate 40 and Oklahoma Highway 16 cross the county in an east-west direction. In farm areas, dirt, gravel, and paved roads provide access to state and federal highways. Railroads transect the county north to south and east to west. The Arkansas River Navigation System crosses the county near the eastern boundary.

Grains, peanuts, truck crops, and livestock are marketed in the survey area or in adjacent towns. Most of the industries are located near the city of Muskogee.

Climate

Prepared by the National Climatic Data Center, Asheville, North Carolina.

Table 1 gives data on temperature and precipitation for the survey area as recorded at Muskogee, Oklahoma, in the period 1951 to 1957. Table 2 shows probable dates of the first freeze in fall and the last freeze in spring. Table 3 provides data on length of the growing season.

In winter the average temperature is 41 degrees F, and the average daily minimum temperature is 31

degrees. The lowest temperature on record, which occurred at Muskogee on January 10, 1977, is -9 degrees F. In summer the average temperature is 80 degrees F, and the average daily maximum temperature is 92 degrees. The highest recorded temperature, which occurred at Muskogee on July 13, 1954, is 114 degrees.

Growing degree days are shown in table 1. They are equivalent to "heat units." During the month, growing degree days accumulate by the amount that the average temperature each day exceeds a base temperature (50 degrees F). The normal monthly accumulation is used to schedule single or successive plantings of a crop between the last freeze in spring and the first freeze in fall.

The total annual precipitation is 41 inches. Of this, 25 inches, or 60 percent, usually falls in April through September. The growing season for most crops falls within this period. In 2 years out of 10, the rainfall in April through September is less than 19 inches. The heaviest 1-day rainfall during the period of record was 7.16 inches at Muskogee on July 15, 1961. Thunderstorms occur on about 50 days each year, and most occur in summer.

The average seasonal snowfall is 8 inches. The greatest snow depth at any one time during the period of record was 10 inches. On an average of 1 day, at least 1 inch of snow is on the ground. The number of such days varies greatly from year to year.

The average relative humidity in midafternoon is about 50 percent. Humidity is higher at night, and the average at dawn is about 80 percent. The sun shines 70 percent of the time possible in summer and 55 percent in winter. The prevailing wind is from the south. Average windspeed is highest, 12 miles per hour, in spring.

Visual Resources

David Thompson, landscape architect, Soil Conservation Service, assisted in the preparation of this section.

The appearance and visual qualities of Muskogee County are important and worthy of inventory, evaluation, and management. The visual resource is the definable appearance of the land form, vegetation, water elements, and manmade structures of the county. As with any natural resource, visual resources are finite and should be regarded as worthy of proper management for effective conservation. Visual resources occur in various patterns that have differing degrees of diversity ranging from low to high.

Each general soil map unit has a distinctive appearance that can be modified by altering the landscape elements or patterns. In some areas, the visual resource has been extensively changed by agricultural practices or urban expansion.

The visual diversity is described and rated in the general soil map units. These descriptions are based on a comparison of landscapes within the county and the patterns that are created by the basic landscape

crops, the crop residue needs to be returned to the soil and excessive tillage should be avoided.

This soil has medium potential for native grasses and high potential for tame pasture. A combination of bermudagrass or tall fescue and clover is commonly used. Controlling weeds, proper grazing, and preventing wildfires improve the quality and quantity of forage. Fertilizer can also increase the quantity of forage.

This soil has low potential for most urban uses because of permeability, wetness, high shrink-swell potential, and the clayey texture. Low strength, wetness, texture, and shrink-swell potential must be considered where this soil is used for dwellings, commercial buildings, and roads or streets. The acidity of this soil is corrosive for concrete or steel pipe. This soil has limitations for septic tank filter fields and sanitary landfills.

This Stigler soil is in capability subclass IIe and in the Loamy Savannah range site.

69—Stigler-Urban land complex, 0 to 3 percent slopes. This complex consists of Stigler soil and Urban land on smooth or slightly convex uplands. The Stigler soil is nearly level to very gently sloping and moderately well drained. Most areas of this map unit are drained by surface gutters and ditches. Individual areas of this map unit range from 30 to 300 acres and contain 40 to 60 percent Stigler soil and 20 to 40 percent Urban land. The Stigler soil and Urban land are so intricately mixed that it is not practical to separate them in mapping.

Typically, the Stigler soil has a surface layer of dark grayish brown silt loam about 8 inches thick. The subsurface layer is grayish brown silt loam about 10 inches thick. The subsoil extends to a depth of about 62 inches. It is brown silty clay to a depth of 40 inches and coarsely mottled yellowish brown and grayish brown silty clay below that. In about 20 to 30 percent of the area of this map unit, the soils have been radically altered by excavating, filling, and grading during construction.

The Stigler soil is medium in natural fertility, and the organic matter content is moderate to moderately high. Fertilizer is needed for most plants. Reaction in the surface layer is very strongly acid or strongly acid unless lime has been added. Permeability is very slow, and the available water capacity is high. The soil is tillable and can be worked throughout a wide range of moisture content. A perched high water table is at a depth of 2 to 3 feet during winter and spring.

The Urban land part of this map unit is covered by streets, parking lots, buildings, and other structures that obscure or alter the soils so that identification is not feasible.

Included with this complex in mapping are small areas of Dennis and Parsons soils. Parsons soils are in positions similar to those of the Stigler soil and are somewhat poorly drained. Dennis soils are on the more convex slopes and are moderately well drained. The

included soils make up about 20 percent of the map unit, but areas of these soils are generally less than 10 acres.

The Stigler soil is used for parks, building sites, gardens, trees, and shrubs. It is also used for industry and recreation.

The main concerns in management of this soil are the very slow permeability, wetness, high shrink-swell potential, and high corrosivity. The Stigler soil is well suited to use for lawn grasses, flowers, shrubs, trees, and most vegetables. It has slight limitations for sewage lagoons and severe limitations for septic tank absorption fields, sanitary landfills, dwellings, commercial buildings, camp areas, playgrounds, and roads and streets mainly because of wetness and high shrink-swell potential of the clayey subsoil. The clayey subsoil and low acidity of the subsoil cause high corrosivity of uncoated steel and concrete.

This complex soil is not assigned a capability subclass or a range site.

70—Taloka silt loam, 0 to 1 percent slopes. This soil is deep, nearly level, and somewhat poorly drained. It is on broad, smooth, stream terraces or uplands in prairie areas. Individual areas are mostly 30 to 200 acres, but some areas are about 10 acres.

Typically, the surface layer is very dark grayish brown silt loam about 16 inches thick. The subsurface layer, to a depth of about 24 inches, is grayish brown silt loam. The subsoil is clay to a depth of about 65 inches. It is dark grayish brown to a depth of about 36 inches, grayish brown to a depth of about 48 inches, and coarsely mottled yellowish brown, grayish brown, and gray below that.

This soil is medium in natural fertility, and the organic matter content is low. The surface layer is slightly acid to strongly acid, and lime and plant foods should be added for most crops. Permeability is very slow, and the available water capacity is high. This soil has good tilth and can be worked throughout a moderate range of moisture content. A perched high water table is between depths of 1 foot and 2 feet during winter and spring.

Included with this soil in mapping are intermingled areas of soils similar to the Taloka soil but they have a lighter color subsurface layer. Also included are Dennis, Parsons, and Stigler soils. The included soils make up about 20 percent of the map unit, but areas of these soils generally are less than 5 acres.

Taloka soil is used mainly for small grains, sorghums, and soybeans. In a few areas, it is used for tame pasture or for native range or hayland.

This soil has high potential for cultivated crops. The main concerns in management are controlling soil erosion and maintaining soil fertility and tilth. Crop residue returned to the soil and conservation tillage help maintain soil fertility and tilth and increase water intake. In a few areas that have long slopes, contour farming with diversion terraces helps control erosion. A drainage

somewhat poorly drained. The Dennis soils are on the more convex slopes and are moderately well drained. The included soils make up about 20 percent of the map unit, but areas of these soils generally are less than 10 acres.

The Taloka soil is used for parks, building sites, gardens, trees, and shrubs. It is also used for industry and recreation. The main concerns in management of this soil is very slow permeability, wetness, high shrink-swell potential, and high corrosivity.

The Taloka soil is suited to use for lawn grasses, flowers, shrubs, and most vegetables. Wetness is a severe limitation for septic tank absorption fields, sanitary landfills, dwellings, commercial buildings, camp areas, playgrounds, and roads and streets. High shrink-swell potential of the clayey subsoil is the main limitation for dwellings with basements. The clayey subsoil and low acidity of the subsoil cause high corrosivity of uncoated steel and moderate corrosivity of concrete.

This complex is not assigned to a capability subclass or a range site.

73—Tallahassee loamy fine sand, frequently flooded. This soil is deep, nearly level, and somewhat poorly drained. It is on flood plains, about 150 to 500 feet wide, that are entrenched with shallow, meandering stream channels. The smooth and slightly concave slopes range from 0 to 1 percent. Individual areas are mostly 50 to 200 acres, but some areas are about 10 acres.

Typically, the surface layer is dark brown loamy fine sand about 6 inches thick. The underlying material is dark brown fine sandy loam to a depth of about 21 inches. It is dark yellowish brown and grayish brown fine sandy loam and loam that is stratified with finer and coarser textures to a depth of about 65 inches.

This soil is low in natural fertility and organic matter content. It is neutral to medium acid in the surface layer. Permeability is moderately rapid, and the available water capacity is low to high. An apparent high water table is at a depth of 0.5 foot to 3 feet in the winter and spring. This soil is frequently flooded.

Included with this soil in mapping are Lightning and Verdigris soils. These soils are in slightly higher areas than the Tallahassee soil. Also included are soils similar to the Tallahassee soil except the surface layer is fine sandy loam or loam. The included soils make up about 20 percent of the map unit, but areas of these soils generally are less than 3 acres.

This Tallahassee soil is used mostly as tame pasture or woodland.

This soil has low potential for cultivated crops and is not suited to cultivation. The main concerns in management are frequent flooding and the high water table. This soil produces high-quality hardwoods where trees are thinned, weeded, and selectively harvested.

This soil has high potential for tame pasture and native range. A combination of bermudagrass or tall fescue and clover is commonly used. The main concerns in management are flooding and maintenance of soil structure. Growth of tame pasture plants can be increased by adding fertilizer to the soil and by proper grazing. A good grass mulch helps to maintain soil structure, improve water intake, and protect the soil from erosion during flooding.

This soil has low potential for most urban uses because of flooding and internal soil wetness. It is well suited to trees and shrubs. Flooding and surface wetness limit the use of this soil for lawn grasses, gardens, flowers, sanitary facilities, building site development, and recreation. Wetness can be reduced by internal drainage. Flooding can be controlled but not completely eliminated by upstream flood control structures.

This Tallahassee soil is in capability subclass Vw and in the Subirrigated range site.

74—Urban land. The areas designated as Urban land on soil maps are within the city boundary of Muskogee. Urban land is composed of areas that are more than 75 percent covered with dwellings, commercial buildings, concrete, paved roads, airport runways, and other structures. Slopes are 0 to 8 percent, and the individual areas are more than 40 acres.

Included in mapping are soils that are less than 75 percent covered with permanent structures. Areas of these included soils are less than 3 acres.

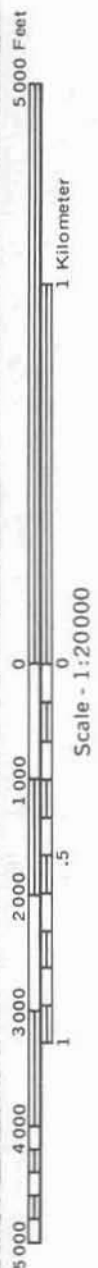
Urban land is not assigned to a capability subclass or range site.

75—Verdigris silt loam, rarely flooded. This soil is deep, moderately well drained, and nearly level. It is on local flood plains in the western half of the county. Slopes are smooth and range from 0 to 1 percent. Individual areas mostly are 25 to 50 acres, but some areas are about 5 acres.

Typically, the surface layer is very dark grayish brown silt loam about 18 inches thick. Below the surface and to a depth of about 43 inches is dark brown silt loam. The underlying material is dark yellowish brown silt loam to a depth of about 69 inches.

This soil is high in natural fertility, and the organic matter content is moderately high. The surface layer is medium acid to neutral. Permeability is moderate, and the available water capacity is high. The soil has good tilth but can only be worked under favorable moisture content. The root zone is deep and easily penetrated by roots.

Included with this soil in mapping are intermingled areas of Cupco and Barge soils. Also included are Lightning, Osage, Roebuck, and Tallahassee soils in slightly lower areas than Verdigris soil. The included soils



(Joins sheet 7)

(Join sheet 16)

(Joins sheet 23)

2780 000 FEET

Reference 8

OKLAHOMA GEOLOGICAL SURVEY

CHARLES J. MANKIN, *Director*

HYDROLOGIC ATLAS 1

RECONNAISSANCE OF THE WATER RESOURCES OF THE FORT SMITH QUADRANGLE
EAST-CENTRAL OKLAHOMA

by

MELVIN V. MARCHER

Prepared in cooperation with
United States Geological Survey



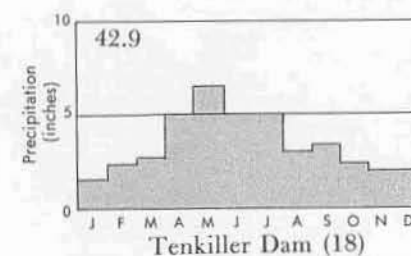
Scale
1:250,000

University of Oklahoma
Norman
1969
Second printing, 1988

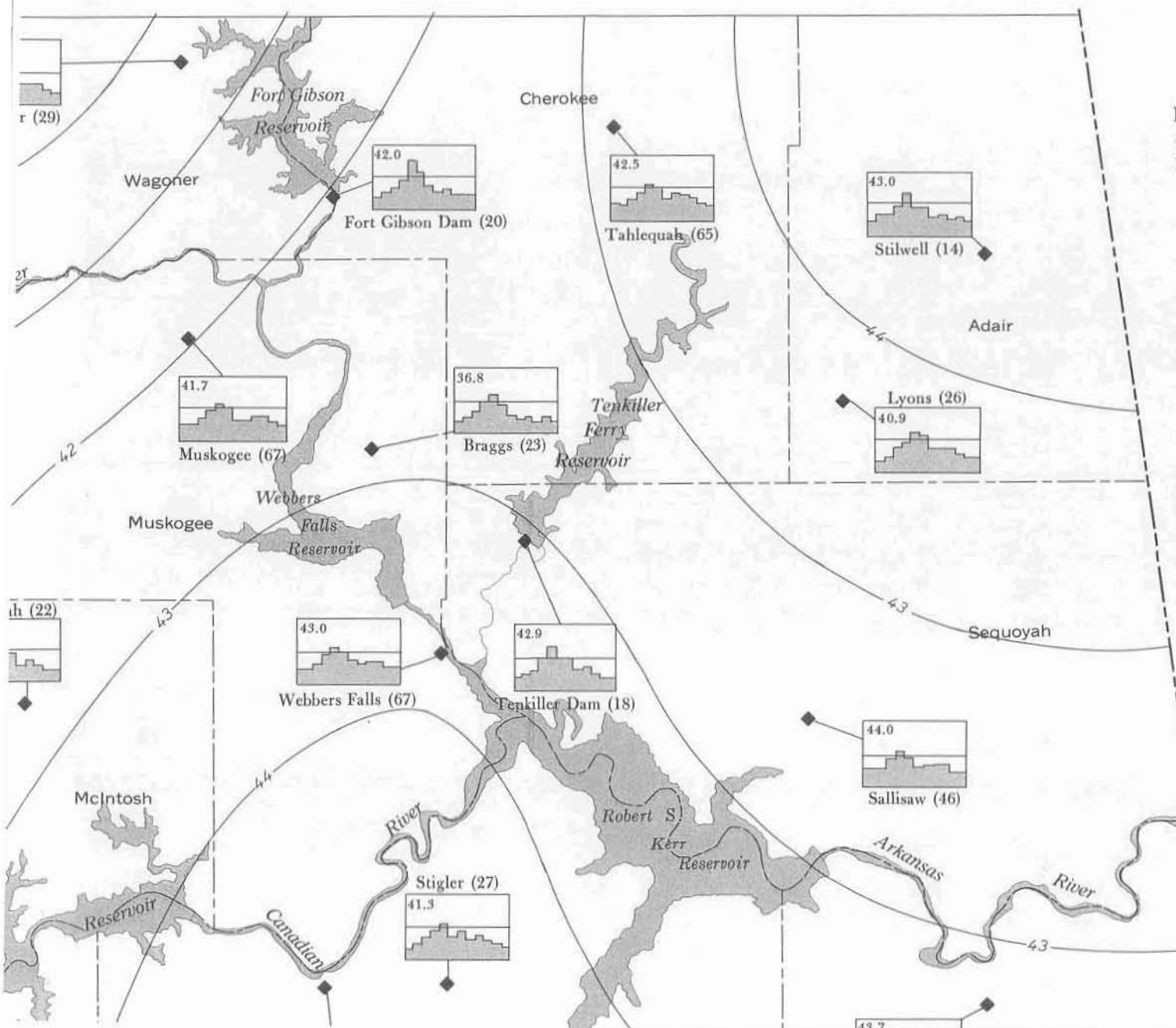
EXPLANATION

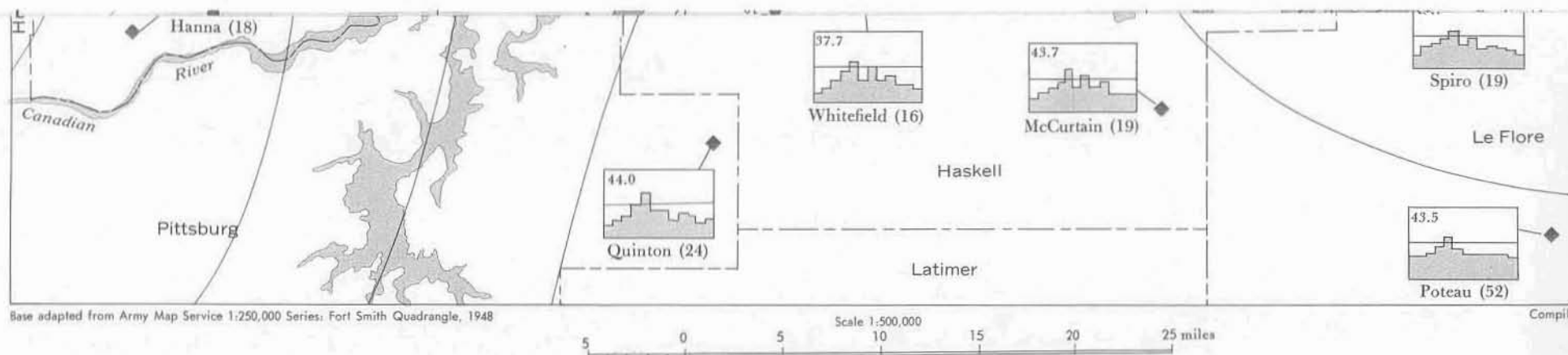
39

Line connecting points of equal mean annual precipitation, based upon normal annual precipitation 1931-1960. Interval: 1 inch



Weather station





PRECIPITATION MAP

Rainfall ranges from about 38 inches in the northwest corner of the area to about 44 inches in the northeastern and southeastern parts. About 60 percent of the average annual rainfall occurs during the growing season from April to September. May is the wettest month and December or January is usually driest.

SUMMARY OF STREAMFLOW RECORDS

STATION NAME	STATION NUMBER	DRAINAGE AREA (SQUARE MILES)	PERIOD OF RECORD	DISCHARGE ¹ (CUBIC FEET PER SECOND)			LOCATION NUMBER	NAME OF STREAM AND LOCATION
				MAXIMUM	MINIMUM	AVERAGE		
Snake Creek near Bixby	7-1655.5	50	1961-	2,050	0.0	16.7	1	Arkansas River at Bixby
Fort Gibson Reservoir near Fort Gibson	1930	12,492	1949-				2	Arkansas River near Muskogee
Neosho River below Fort Gibson Reservoir near Fort Gibson	1935	12,495	1950-	223,000	12	6,534	3	Arkansas River at Webbers Falls
Arkansas River near Muskogee	1945	98,674	1925-	700,000	66	19,890	4	Arkansas River near Sallisaw
Illinois River near Tahlequah	1965	959	1935-	150,000	0.1	858	5	Barren Fork near Baron
Barren Fork at Eldon	1970	307	1948-	37,600	1.7	266	6	Barren Fork near Eldon
Tenkiller Ferry Reservoir near Gore	1975	1,610	1952-				7	Bayou Manard near Fort Gibson
Illinois River near Gore	1980	1,626	1924-25; 1939-	180,000	2.0	1,493	8	Brazil Creek near Panama
Dirty Creek near Warner	1985	227	1939-46	42,000	0.0	224	9	Cache Creek near Cowlington
Deep Fork near Dewar	2440	2,307	1937-50	57,400	1.8	1,337	10	Cache Creek near Keota
Eufaula Reservoir near Brooken	2448	47,522	1964-				11	Canadian River near Whitefield
Canadian River near Whitefield	2450	47,576	1938-	281,000	0.4	5,617	12	Cane Creek near Jamesville
Sallisaw Creek near Sallisaw	2455	182	1942-	110,000	0.0	186	13	Coweta Creek near Coweta
Sans Bois Creek near Keota	2460	346	1938-42	26,300	0.0	241	14	Deep Fork near Dewar
Arkansas River near Sallisaw	2465	147,757	1947-	544,000	161	26,740	15	Dirty Creek near Warner
Poteau River at Poteau	2490	1,240	1937-45	73,000	0.2	1,511	16	Greenleaf Creek near Braggs
							17	Greenleaf Lake near Braggs
							18	Illinois River near Gore
							19	Illinois River near Tahlequah
							20	Little Lee Creek near Nicut
							21	Lee Creek near Short
							22	Little Sallisaw Creek near Sallisaw

¹ Discharge data are given for the period of record for discontinued stations and through the water year ending September 30.

Average yearly runoff ranges from about 8 inches in the western part of the Fort Smith quadrangle to about 14 inches in the eastern part.

Because precipitation is not uniformly distributed throughout the year and because evaporation and transpiration are greatest during the hot summer months, streamflow is highly variable. The greatest amount of runoff occurs during the spring months when rainfall is greatest and evaporation and transpiration are relatively low. High runoff may occur during any month of the year, depending upon storm occurrence, but streamflow generally is lowest in the summer. For example, the mean monthly flow of the Illinois River in September is about 11 percent of the mean monthly flow in May. This percentage is probably greater than percentages for other streams in the area because the Illinois River drains an area underlain by rocks that store large amounts of water that feed the streams during dry months.

Streamflow or reservoir data are available at 16 sites in the quadrangle and are detailed in annual publications of the U. S. Geological Survey. The locations of the gaging stations are shown on the map and pertinent data from the records are summarized above.

A long-term record on Arkansas River at Van Buren, Arkansas, shows that total discharge at the eastern edge of the report area has averaged 22.2 million acre-feet per year during 1927-1966. This tremendous quantity of water is regulated to a significant degree by major impoundments, such as the Tenkiller Ferry, Fort Gibson, and Eufaula Reservoirs and several impoundments upstream from this area. Further regulation will be provided by the two impounding structures now under construction on the Arkansas River—Webbers Falls Dam and Robert S. Kerr Lock and Dam.

24 Neosho River near Fort Gibson
25 Poteau River near Braden
26 Sallisaw Creek near Sallisaw

27 Sallisaw Creek near Bunch
28 Sans Bois Creek near Keota

29 Sans Bois Creek near Kinta
30 Skin Bayou near Gans
31 Snake Creek near Leonard
32 Verdigris River near Okay

33 Verdigris River near Wagoner
34 Vian Creek near Vian

¹ D, daily; M, miscellaneous.

² Sodium adsorption ratio.

³ Micromhos per centimeter at 20°C.

The use of this information for irrigation purposes in the quadrangle is published in an annual report. Waters of the streams in the quadrangle are being regulated with the series of annual reports.

RECONNAISSANCE



Reference 9

TECHNICAL PAPER NO. 40

RAINFALL FREQUENCY ATLAS OF THE UNITED STATES

for Durations from 30 Minutes to 24 Hours and
Return Periods from 1 to 100 Years

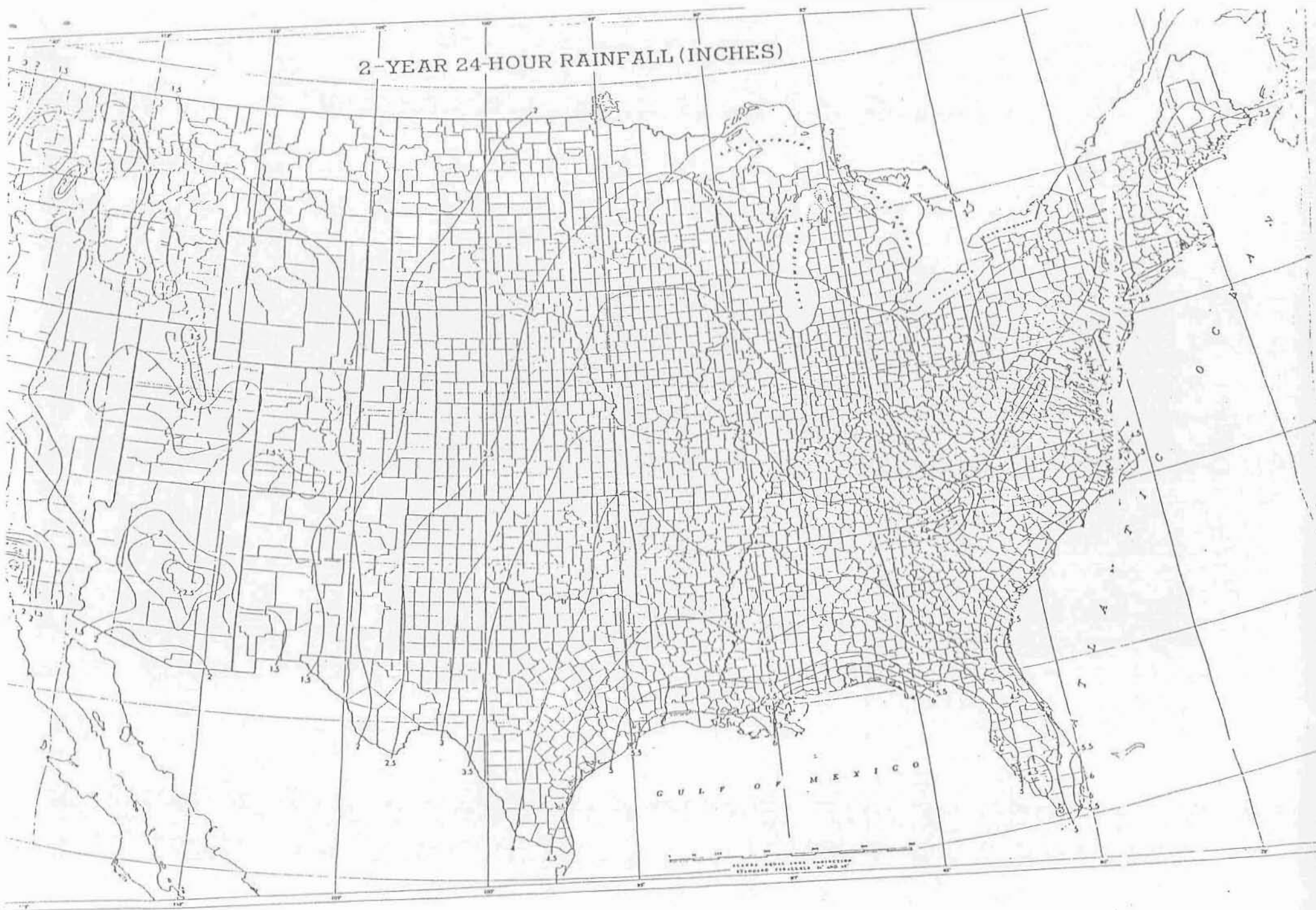


WASHINGTON, D.C.

May 1961

Repaginated and Reprinted January 1963

2-YEAR 24-HOUR RAINFALL (INCHES)



Reference 10

MEMORANDUM

Date: December 17, 2004

To: Pure Oil Company Preliminary Assessment (PA) file

From: A. Samwel, Environmental Programs Specialist II *a.s.*
Site Assessment Section

Site Reconnaissance

On December 13, 2004, Aron Samwel and Hal Cantwell conducted a site reconnaissance of the Pure Oil Company site, which is located in the following sections: NE/4 Section 34 and NW/4 Section 35, Township 15 North, Range 18 East in Muskogee County, Oklahoma. This site contains approximately 62 acres. The weather was sunny with strong north winds, and a temperature near 40° F.

The site is bounded by the north by East Kalamazoo Avenue, to the south by Coody Creek, 14 acres west of Main Street, and 400 feet east of South Cherokee. There are no schools or daycare centers within 200 feet of the site. The site consists of rural abandoned, farmland, industrial and commercial pursuits, and residences. Site access is not controlled because not all of the properties are fenced. There are 5 residents on the site, which would all be considered nearest residents. There are 3,105 residents within 1 mile of the site according to the Population Memorandum compiled by Amy Johnson. Resources on or near the site include, two wells were seen at the southwest corner of ANSA, wetlands, creek & pond. The surface water pathway is the drainage ditch alongside the railway, and in some places, drainage flows directly into Coody Creek. The Missouri, Kansas and Texas railway also transverses the site. Resources on or near the site include, two monitoring wells were seen at the southwest corner of ANSA, wetlands, creek & pond.

The visit was conducted between 10:25 a.m. and 5:30 p.m. Property was accessed with "Consent for Access to Property" agreements in hand, which are all attached. Two of the properties we did not have access to and did reconnaissance from the street. The following parties own the property: Land Real Estate owns Block 67 Lots 8-11 NE/4 SE/4 34, 24 degrees 55' E along westerly line of MK&T 723.5 ft, NW at right angles to westerly line 200 ft, SW parallel w/ westerly line of MK&T 563.5 ft then SW along a line that is at right angles 40 ft, SW parallel w/ line of MK&T 60 ft, SE 130.6 ft to 76 ft NW from beginning, SE for 76 ft to beginning, ANSA 67 Lots 1-7, City of Muskogee Block 66 Lots 1-9, Josco Block 65 Lot 1, and Muskogee Mills Block 65 Lots 2-6. The ownership of the site is municipal and private. Pure Oil owned the land from 1906 to 1956 according to deed records.

Types of waste present include metals, asphalt gravel pits, glass debris, piles of sand/wood debris, and foundry waste. Stressed vegetation was evident in the pit and pond areas (there was no life in the pond). Other areas that were not paved had grass. The creek was also well wooded.

Size of Site: 62 acres

Calculations:

West of MK&T RR = $14.17 + 23.71 + 3$ acres = 40.88 acres (tax assessor)

$(300 \times 500 \text{ ft} = 150000 \text{ sq ft}) + \textit{East of MK\&T RR}$

$(300 \times 1400 \text{ ft} = 420000 \text{ sq ft}) + (400 \times 900 \text{ ft} = 360000 \text{ sq ft}) = 930000 \text{ sq ft} \times .000022957 = 21.35 \text{ acres (Sanborn)}$

Businesses on-site include the following: WP Feeds (3 cars), ANSA (4 cars, 1200 S. Main), ANSA Jeldwen Millwork Masters (18 cars), Muskogee Materials (1201 S. Cherokee 682-2484), Optical Machinery (930 S. Cherokee), City Junkyard/ Gravel Lay-down Yard, Muskogee County Warehouse #2 & Firestation (4 cars, 1300 S. Cherokee), Renfro Electric (687-7535), Automotive Vending (3 cars, 1400 S. Cherokee), St. Mark Baptist Church, Hutchens Agri Supply (5 cars, 1131 Main St.), and Applied Medical Professionals (1141 Main St. 687-8001). There are approximately 37 workers on-site. Most of the facilities are manufacturing. Gerber Coburn is just south of the site, and Morning Star Baptist Church is just east of the site. 919 cole grain or UST?

Locations of USTs include: The City of Muskogee 1330 S. Cherokee/Fairgrounds, WP Milling Company 1119 S. Cherokee, 7 Express Convenience 2801 S. Cherokee, HR Sheets 1111 S. Main, Quick Stop Kalamazoo & S. Main, and Handy Hut Getty 1103 S. Main (historical).

Land use to the north is residential, to the south is industrial, and to the east and west is both residential and commercial, including agriculture.

There are several waste pits on-site. The following waste pits were found: asphalt gravel debris near ANSA (36 x 75 feet), glass debris (30 x 21 feet), sand and wood debris (21 x 30 feet), foundry debris (66 x 30 feet), 28 small piles of foundry waste west of ANSA. Further north, foundry waste piles were found in the following sizes (15 x 120 feet), (9 x 15 feet), and (18 x 15 feet), (33 x 15 feet), (21 x 36 feet), (200 x 27 yards); glass debris (12 x 36 feet) and (66 x 12 feet), and multi-plastic debris (18 x 18 feet). There are lots of old bricks, cement foundation, and railroad ties. South of ANSA is an oil field waste pit (34 x 85 yards) and a waste pit pond (56 x 85 yards). A VOC odor was detected there. Total area is: 14,466 sq yd or 30 sq acres.

Calculations:

$36 \times 75 \text{ feet} = 2700 \text{ sq ft} = 300 \text{ sq yd}$

$30 \times 21 \text{ feet} = 630 \text{ sq ft} = 70 \text{ sq yd}$

$21 \times 30 \text{ feet} = 630 \text{ sq ft} = 70 \text{ sq yd}$

$66 \times 30 \text{ feet} = 1980 \text{ sq ft} = 220 \text{ sq yd}$

$15 \times 120 \text{ feet} = 1800 \text{ sq ft} = 200 \text{ sq yd}$

9 x 15 feet = 135 sq ft = 15 sq yd
18 x 15 feet = 270 sq ft = 30 sq yd
18 x 18 feet = 324 sq ft = 36 sq yd
33 x 15 feet = 495 sq ft = 55 sq yd
21 x 36 feet = 756 sq ft = 84 sq yd
200 x 27 yards = 5400 sq yd
12 x 36 feet = 432 sq ft = 48 sq yd
66 x 12 feet = 792 sq ft = 88 sq yd
34 x 85 yards = 2890 sq yd
56 x 85 yards = 4760 sq yd

Important Resources and Environments On or Near the Site: Wetlands (90 feet diameter), Creek (1 ½ miles) & Pond (56 x 85 yards)

Calculations:

(1.5 miles = 7920 ft x 1 ft = 7920 sq ft = 880 sq yd)
(90 feet diameter = 6361 sq ft = 706 sq yd) +
(56 x 85 yards = 4760 sq yd) = 6346 sq yd = 1 1/2 acres

Reference 11

MEMORANDUM

DATE: December 17, 2004

TO: Pure Oil Co. file

FROM: Aron Samwel *A.S.*
Environmental Program Specialist

RE: December 17, 2004 Telephone Interview with Miranda, From the
Corporation Commission

The following information was obtained from a telephone interview with Miranda after calling the Corporation Commission (522-5261) with Aron Samwel.

- Miranda did a search on the following owners of concern: Pure Oil Co. and Muskogee Materials. The search showed that there were no Underground Storage Tanks (USTs) for those owners on the vicinity. She also did a search for USTs on S. Cherokee and S. Main. She did find the following properties which all have a UST on-site: City of Muskogee 1330 S. Cherokee/Fairgrounds, WP Milling Company 1119 S. Cherokee, 7 Express Convenience 2801 S. Cherokee, HR Sheets 1111 S. Main, Quick Stop Kalamazoo & S. Main, and Handy Hut Getty 1103 S. Main (historical). A UST can be filled with gasoline, diesel, kerosene, or used oil.
- She gave me the following properties, which are outside of the site: Davis Field Convient 6335 S. Cherokee, Public Water Department 301 S. Cherokee, Easy Mart 4250 S. Cherokee, and Getty Bulk 502 S. Cherokee (historical).

Reference 12

MEMORANDUM

December 10, 2004

To: Janie Bender, Customer Service Complaints Unit, ECLS

From: Aron Samwel, Assessment Unit, LPD *a.s.*

Subject: Pure Oil Co. - Muskogee Materials
↓
in Business
1906-1956

The following request is for complaints information concerning the attached site. The information provided by your division will be used in partial completion of a preliminary assessment of Pure Oil Co.

The following sections with the accompanying township and ranges are the areas of study for this project.

Your assistance is greatly appreciated. If you have any questions, please call me at 702-5123.

SITE NAME	SECTIONS	TOWNSHIP	RANGE	COUNTY
Pure Oil Co.	8-36	15N	18E	Muskogee
Pure Oil Co.	7, 17-20, 28-33	15N	19E	Muskogee
Pure Oil Co.	1-17, 21-24	14N	18E	Muskogee
Pure Oil Co.	4-8, 18	14N	19E	Muskogee



RECEIVED DEC 13 2004

Bender, Janie

From: Samwel, Aron
Sent: Monday, December 13, 2004 4:57 PM
To: Bender, Janie
Subject: Pure Oil Complaints Search

Sorry I missed your call, I was in Muskogee today. I think Pure operated from 1906 to 1956 and then was sold to Muskogee Materials. So really a search on Muskogee Materials would probably be more useful.

Thanks for you help,

Aron Samwel
Environmental Programs Specialist
Department of Environmental Quality
(405) 702-5123
aron.samwel@deq.state.ok.us



STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

BRAD HENRY
Governor

December 17, 2

ATTN: Aron Samwel
RE: File Search

Dear Aron:

I was writing to you concerning your request for a file search on the Pure Oil Company also known as Muskogee Materials in Muskogee County, Oklahoma, described as:

A tract of land lying in Sections 8-36, T-15-N, R-18-E,
Sections 7,17-20,28-33, T-15-N, R-19-E
Sections 1-17,21-24, T-14-N, R-18-E
Sections 4-8, 18, T-14-N, R-19-E

We did not find any records in the Citizen's Environmental Complaints Database for any complaints against the above-mentioned property. If you wish to search for any other information among our Water Quality, Air Quality, Solid Waste & Hazardous Waste Divisions, please send a request to Margaret Graham, Customer Services Division.

If you have any further questions regarding this matter, please feel free to contact me. For your information, Margaret Graham's number is (405) 702-9122.

Sincerely,

Janie Bender
Environmental Complaints and Local Services



Reference 13

Memorandum

Date: November 10, 2004

To: Pure Oil PA File

From: Amy Johnson

Re: Hydrogeology and Ground Water Use
Pure Oil
T15N R18E Sec 35
Muskogee County, Oklahoma

Geologic Setting and Regional Hydrogeology

The Muskogee County is located on the northern shelf of the Arkoma Basin. In the county the rock outcrops are mainly of Pennsylvanian sandstone, shale, and coal that were deposited on lowlands and in shallow seas that once covered much of eastern Oklahoma. The Arkoma Basin was formed from the erosion, by streams and rivers, of the Ozark Uplift to the west and the Central Oklahoma arch to the northwest. Outcrops in the county generally dip to the west except in places where dip is reversed due to faults and broad folds. The county also has deposits of unconsolidated alluvium laid down by ancient and modern rivers and streams. The Pennsylvanian rocks exposed in Muskogee County are, from oldest to youngest, the Atoka, Hartshorne, McAlester, Savanna, Boggy, Stuart Shale, and Senora Formations. The site is located on the Boggy Formation, which is 450 to 700 feet thick and is composed of layers of sandy shale interbedded with several thin layers of limestone and coal.

Groundwater resources in Muskogee County are found in aquifers within bedrock, alluvial, and river terrace deposits. The groundwater is derived from precipitation falling directly on the area. Most wells in the shale, siltstone, and sandstone yield only a fraction of a gallon per minute to a few gallons per minute. A few wells are reported to yield as much as 20 gpm. The general chemical quality of the water is generally poor to fair. Of the groundwater sampled 57% contained more than 250 ppm sulfate, 10% contained more than 250 ppm chloride, and 53% contained more than 45 ppm nitrate; two were taken from wells that are apparently polluted.

Site Hydrogeology and Groundwater Use

The majority of groundwater in the Muskogee area is found in unconsolidated alluvium and river terrace deposits. These deposits are reported to yield up to 900 gpm. Most wells are drilled less than 50 feet deep. Groundwater flows east to the river. The closest control well to the site is 2 miles to the east, it is 42 feet deep and the water depth is 19 feet below the land surface. The site is not in a recharge area for a principal groundwater resource for the State of Oklahoma.

The Arkansas River forms the major drainage feature in Western Muskogee County. The Arkansas is a northwest to southeast running river. The river is dammed south of Muskogee forming the Webbers Falls Reservoir to the east of Muskogee.

The Arkansas River near Muskogee is assigned the following beneficial uses: Emergency Water Supply, Warm Water Aquatic Community- Fish and Wildlife Propagation, Agriculture- Class I Irrigation, and Primary Body Contact- Recreation. The chemical quality of the water is very hard, with moderate pH, total dissolved solids, chloride and sulfate levels.

References

Johnson, Kenneth S., 1983, "Maps Showing Principal Ground-Water Resources and Recharge Areas in Oklahoma", Oklahoma State Department of Health, Oklahoma City, Oklahoma.

Marcher, M. V., 1969, Hydrologic Atlas 1, "Reconnaissance of the Water Resources for the Fort Smith Quadrangle East-Central Oklahoma," Oklahoma Geological Society, Norman, Oklahoma.

Oklahoma Water Resources Board, 2000, Oklahoma's Beneficial Use Monitoring Program (BUMP) DRAFT FINAL REPORT, Water Quality Programs Division, Oklahoma City, OK.

Townsend, M., Long, R., Scott, G. F., and Gilbertson, R. R., 1988, Soil Survey of Muskogee County, Oklahoma, United States Department of Agriculture.

Reference 14

MEMORANDUM

Date: November 10, 2004

To: Pure Oil PA File

AJ From: Amy Johnson, Environmental Programs Specialist

Re: Population, Public Water Wells, Surface Water Intakes, and Wellhead Protection Areas
Pure Oil Preliminary Assessment
Muskogee County, Oklahoma

The population information for the Pure Oil Preliminary Assessment located at Sec 35 T15N R18E IM is as follows:

1. Within $\frac{1}{4}$ mile of the site: 53
2. Between $\frac{1}{4}$ and $\frac{1}{2}$ miles of the site: 739
3. Between $\frac{1}{2}$ and 1 miles of the site: 2313
4. Between 1 and 2 miles of the site: 18249
5. Between 2 and 3 miles of the site: 11946
6. Between 3 and 4 miles of the site: 5895

There are no public water wells, surface water intakes, or wellhead protection areas within the 4-mile radius of the site.

All data was collected using the DEQ ArcView databases.

Reference 15



STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

BRAD HENRY
Governor

November 12, 2004

Scott Christenson
United States Geological Survey
202 NW 66th Street
Building 7
Oklahoma City, Oklahoma 73101

Dear Mr. Christenson:

The purpose of this letter is to request information regarding the location and use of wells located in the areas listed on the attached page. The information provided by your office will be used to partly describe ground water targets for a CERCLA Preliminary Assessment that will be conducted by the DEQ (Site Assessment Unit), as authorized by a cooperative agreement with the U. S. Environmental Protection Agency.

Your assistance is greatly appreciated. If you have any questions, please call me at 702-5123.

Sincerely,

A handwritten signature in cursive script that reads "A. Samwel".

Aron Samwel
Environmental Programs Specialist II
Site Assessment Unit
Land Protection Division

Attachment



SITE NAME	SECTIONS	TOWNSHIP	RANGE	COUNTY
Pure Oil Company	8-36	15N	18E	Muskogee
Pure Oil Company	7, 17-20, 28-33	15N	19E	Muskogee
Pure Oil Company	1-17, 21-24	14N	18E	Muskogee
Pure Oil Company	4-8, 18	14N	19E	Muskogee

DATE: 11/24/04

Preliminary data, subject to revision. U.S. Geological Survey.

PAGE 1a

LOCAL WELL NUMBER	COUNTY	OWNER	LATITUDE NAD83 (DECIMAL DEGREES)	LONGITUDE NAD83 (DECIMAL DEGREES)
14N-18E-10 CBC 1	101	Thompson, Robert	35.70121013	-95.39219271
14N-18E-12 BBB 1	101	Gilbert, Mary	35.71120996	-95.35663508
14N-18E-27 BBD 1	101	Webb, Guirti	35.65315440	-95.38997094
14N-18E-29 BBD 1	101	Leflore, Marian	35.66621022	-95.42580608
14N-19E-08 BCB 1	101	Graham, Scott	35.70676531	-95.32191101
14N-19E-28 BCB 1	101	Bass, James	35.66232058	-95.30441061
15N-18E-11 DDD 1	101	--	35.78398802	-95.36080126
15N-18E-17 BBC 1	101	--	35.78176612	-95.42802723
15N-18E-24 ABB 1	101	Malone	35.76732177	-95.45386210
15N-19E-15 DDD 1	101	US Geological Survey	35.77037640	-95.26968519
15N-19E-29 ADD 1	101	Ryan, Filloyd	35.74815427	-95.30496510

Received

DEC 01 2004

4.6
Land Protection Division
Department of Environmental Quality

LOCAL WELL NUMBER	PRIMARY USE OF WATER	DEPTH DRILLED (FEET)	DEPTH OF WELL (FEET)	ALTITUDE OF LAND SURFACE (FEET)	ALTITUDE DATUM (CODE)	WATER LEVEL (FEET)	WATER- LEVEL DATE
14N-18E-10 CBC 1	H	--	100	580	NGVD29	25	07-12-1978
14N-18E-12 BBB 1	U	--	16.0	575	NGVD29	7.10	07-12-1978
14N-18E-27 BBD 1	H	--	75.0	585	NGVD29	30.50	07-12-1978
14N-18E-29 BBD 1	H	--	58.0	600	NGVD29	4.25	07-17-1978
14N-19E-08 BCB 1	H	--	222	542	NGVD29	16.60	07-12-1978
14N-19E-28 BCB 1	H	--	44.0	595	NGVD29	28.80	07-12-1978
15N-18E-11 DDD 1	U	--	71.0	--	--	42.54	07-11-1978
15N-18E-17 BBC 1	H	--	140	750	NGVD29	89.60	07-11-1978
15N-18E-24 ABB 1	H	--	150	710	NGVD29	--	--
15N-19E-15 DDD 1	U	--	29	509	NGVD29	9.56	06-15-1984
15N-19E-29 ADD 1	H	--	32.0	540	NGVD29	28.60	07-12-1978

GROUND-WATER SITE DATA

DATA RELIABILITY (C3)

C	L	M	U
field checked	poor location	minimal data	un-checked

DATE OF CONSTRUCTION (C21)

month		day		year	

USE OF SITE (C23)

A	C	D	E	G	H	M	O	P	R	S	T	U	V	W	X	Z
anode, standby emer. supply,	drain,	geo-thermal,	seismic,	heat reservoir,	mine,	observa-	oil or gas,	recharge,	repressurize,	test,	unused	with drawal/return,	with-drawal,	waste,	des-royed	

SECONDARY USE OF SITE (C301) (See use of site)

TERTIARY USE OF SITE (C302) (See use of site)

USE OF WATER (C24)

A	B	C	D	E	F	H	I	J	K	M	N	P	Q	R	S	T	U	Y	Z
air cond.,	bottling	comm-erical	de-water	power,	fire,	domestic	irri-gation	Industrial (cooling),	mining,	medi-cinal,	Indus-trial,	public supply,	aqua-culture,	recrea-tions,	stock,	Instit-utional,	unused,	desalin-ation,	other

SECONDARY USE OF WATER (C25) (see use of water)

☐

TERTIARY USE OF WATER (C26) (see use of water)

☐

AQUIFER TYPE (C713)

U	N	C	M	X
unconfined single	unconfined multiple	confined single	confined multiple	mixed

PRIMARY AQUIFER (C714)

--	--	--	--	--	--	--	--	--	--

HOLE DEPTH (C27)

--	--	--	--	--	--	--	--

WELL DEPTH (C28)

--	--	--	--	--	--	--	--

SOURCE OF DEPTH DATA (C29)

A	D	G	L	M	O	R	S	Z
other gov't,	driller,	geol-ogist,	logs,	memory,	owner,	other reported,	reporting agency,	other

WATER-LEVEL DATA

DATE WATER LEVEL MEASURED (C235)

(Mandatory if C237 water level has a value)

month		day		year			

TIME (C709)

--	--	--	--

WATER LEVEL (C237)

--	--	--	--	--	--	--	--

METHOD OF WATER-LEVEL MEASUREMENT (C239)

A	B	C	E	G	H	L	M	N	R	S	T	V	Z
airline,	analog,	calibrated airline,	estimated,	pressure gage,	calibrated press. gage,	geophys-ical logs,	manometer,	non-rec. gage,	reported,	steel tape,	electric tape,	calibrated elec. tape	other

SITE STATUS FOR WATER LEVEL (C238)

D	E	F	G	H	I	J	M	N	O	P	R	S	T	V	W	X	Z
dry,	recently flowing,	flowing,	nearby flowing	nearby recently flowing,	injector site,	injector site monitor,	plugged,	measura-ment discon.,	obstruc-tion,	pumping,	recently pumped,	nearby pumping,	nearby recently pumped,	foreign sub-stance,	well des-royed,	surface water effects,	other

SOURCE OF WATER-LEVEL DATA (C244)

A	D	G	L	M	O	R	S	Z
other gov't,	driller,	geol-ogist,	logs,	memory,	owner,	other reported,	reporting agency,	other

PERSON MAKING MEASUREMENT

CONSTRUCTION DATA

RECORD TYPE (C754)

C	O	N	I	S
---	---	---	---	---

RECORD SEQUENCE NO. (C723)

--	--	--	--

DATE OF CONSTRUCTION (C60)

month		day		year	

NAME OF CONTRACTOR (C63)

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

SOURCE OF DATA (C64)

A	D	G	L	M	O	R	S	Z
other gov't,	driller,	geol-ogist,	logs,	memory,	owner,	other reported,	reporting agency,	other

METHOD OF CONSTRUCTION (C65)

A	B	C	D	H	J	P	R	T	V	W	Z
air-rotary	bored or augered,	cable tool,	dug,	hydraulic rotary,	jetted,	air per-cussion,	reverse rotary,	tranching,	driven,	drive wash,	other

TYPE OF FINISH (C66)

C	F	G	H	O	P	S	T	W	X	Z
porous concrete,	gravel w/perf.,	gravel sceen,	horiz. gallery,	open end,	perfor slotted,	sceen,	sand point,	walled,	open hole,	other

TYPE OF SEAL (C67)

B	C	G	N	Z
ben-tonite,	clay,	cement grout,	none,	other

BOTTOM OF SEAL (C68)

--	--	--	--	--	--

METHOD OF DEVELOPMENT (C69)

A	B	C	J	N	P	S	Z
air-lift pump,	bailed,	compres-sed air,	jetted,	none,	pumped,	surged,	other

HOURS OF DEVELOPMENT (C70)

--	--	--	--	--	--

SPECIAL TREATMENT (C71)

C	D	E	F	H	M	Z
chem-icals,	dry ice,	explo-sives,	defec-ulent,	hydro-frac-turing,	mech-anical,	other

Reference 16



OKLAHOMA WATER RESOURCES BOARD

Planning & Management Division

3800 Classen Boulevard
Oklahoma City, OK 73118
Telephone: (405) 530-8800
TeleFax: (405) 530-8900
www.owrb.state.ok.us

Date: November 19, 2004

**Arron Samwel
Environmental Programs Specialist II
Site Assessment Unit
Land Protection Division**

The enclosed material or information is sent to you:

- ☐ For your information
☒ In response to your request

From: Theda Adkisson, Drilling Pump Contractors Licensing

Comments: If I can be of further assistance, give me a call.

Theda Adkisson
DPC Licensing
Planning & Management Division
Oklahoma Water Resources Board
(405) 530-8800

DUANE A. SMITH
EXECUTIVE DIRECTOR



STATE OF OKLAHOMA
WATER RESOURCES BOARD



BRAD HENRY
GOVERNOR

September 15, 2003

NOTICE TO WELL RECORDS SEARCH CUSTOMERS

The Oklahoma Water Resources Board is pleased to announce the availability of a web-based well record search application which is accessible through the agency's web site. **This service is free to the public.** The address for our web site is www.owrb.state.ok.us.

You will be able to search by the well id number, county, or legal location. You must then select the type and uses of the well records you are interested in finding. You can select all groundwater and/or monitoring well uses or only selected uses, such as public water supply wells. You can also select some other type of well record, such as groundwater test holes, geotechnical borings, etc. The search can be further modified to select wells you want which were completed before, on, or after a certain date.

The summary results of the search you have completed can be downloaded in a .csv format by clicking on the 'download search results' line near the top of the screen. This file can then be opened in Excel or other comparable spreadsheet.

From the results display screen you can also view the entire record for an individual well or boring by clicking on any one of the displayed well id numbers. The well construction data available for that well will be displayed which can then be printed. One note of caution: At this time many of the well records do not have all of the data entered into the database. If you need the missing data, primarily casing and screen information and lithologic descriptions, then a request for a copy of the well log must be made from the Oklahoma Water Resources Board. There will still be a fee charged for the well records searches the Oklahoma Water Resources Board staff conducts. The well records search request form is available on-line at www.owrb.state.ok.us/supply/wd/wd_forms.php.

If you have any questions regarding the well record search please contact Theda Adkisson at (405) 530-8800.

Download Results to CSV

(ALT-D)

New Search

(ALT-N)

Graph Water Levels

(ALT-G)

Save Wells for Graphing


(ALT-W)

[View Drought Monitoring Map and Water Level Graphs](#)

[Help & Search Results Key](#)

Search Results for 8-36, 15N, 18E1

Displaying Results 1 through 1 of 1.

Well ID	County	Owner Name	Qtrs	SEC-TWP-RGE	Date Const	Well Type	Use	TD (ft)	Static WL	First Zone	Meas. WL	Est. Yld	WL Graph
14406	Muskogee	Lester Rodgers	NENENE	24-15N-18E1	05/30/87	Groundwater Well	Domestic	80	n/a	2	n/a	2.5	

Help & Search Results Key

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MULTI-PURPOSE WATER WELL REPORT

STATE OF OKLAHOMA
WATER RESOURCES BOARD
1000 N.E. 10th St., P.O. Box 53585
Oklahoma City, Oklahoma 73152

Application No. _____
Aquifer _____
Steam System Code _____
Use Code _____
County _____
(Official Use Only)

#14406

1. OWNER Lester Rodgers ADDRESS 1108 W. Pitt
Broken Arrow OKIA PHONE 251-4117

2. LEGAL DESCRIPTION OF WELL
NE $\frac{1}{4}$ of NE $\frac{1}{4}$ of NE $\frac{1}{4}$ of sec. 24, TWP. 15 S. RGE. 18 E. COUNTY Muskogee

3. TYPE OF WORK
☒ New Well ☐ Plugging
☐ Reconditioning Work
☐ Test/Monitoring

4. USE
☒ Domestic
☐ Stock
☐ Test/Monitoring

NON-DOMESTIC
☐ Irrigation
☐ Municipal
☐ Industrial
☐ Commercial
☐ Other

5. DRILLING METHOD
☐ Rotary ☐ Rev. Rotary
☒ Cable ☐ Other
☐ Air

6. LOG			
Material	From	To	Saturated
Top soil	0	6	
Sand rock	6	18	-
Shell	18	52	
lime stone	52	56	
Shell	56	78	
lime stone	78	56	

7. LOCATION PERMIT
If this well is Non Domestic, has this location been permitted?
☐ Yes ☐ No Permit No. _____

8. NEW WELL CONSTRUCTION DATA
DATES: Started 5-25-87 Completed 5-30-87
Contractor Vincent Water Well Drilling
Driller DeWayne Vincent
Diameter Hole 8 in. Total Depth 80 ft.

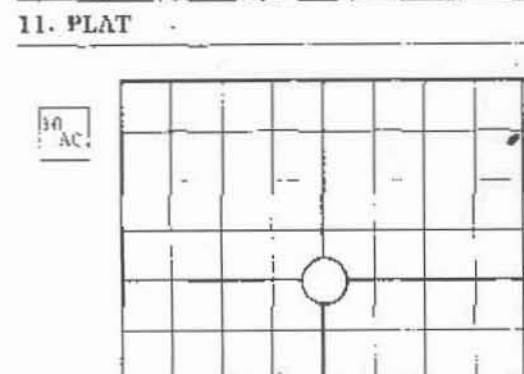
CASING RECORD
Diameter From To
Inside _____ in. _____ ft. _____ ft.
Outside _____ in. _____ ft. _____ ft.
Cement Grout Surface Seal ☒ Yes ☐ No
Type of Surface Seal: pvc Depth of Seal: 12 ft.
GRAVEL PACKED:
Gravel Packed From _____ ft. to _____ ft.
Amount Used: _____

PERFORATION RECORD
Type/Size
From _____ ft. To _____ ft.
From _____ ft. To _____ ft.
From _____ ft. To _____ ft.

9. WELL TEST DATA
Static Water Level Below Land Surface 2' ft.
If Artesian: Flows _____ gpm.
Approximate Yield 2 1/2 gpm.

10. PLUGGING DATA
Date Plugged _____
Backfilled With _____ Material To _____ ft.
Grouted or Cemented From _____ ft. To _____ ft.
Plot location in Item 11. Show Distances From 2 Section Lines.

11. RECONDITIONING WORK
Data Completed _____



Download Results to CSV

(ALT-D)

New Search

(ALT-N)

Graph Water Levels

(ALT-G)

Save Wells for Graphing



(ALT-W)

[View Drought Monitoring Map and Water Level Graphs](#)

[Help & Search Results Key](#)

Search Results for 7, 15N, 19E1

Displaying Results 1 through 2 of 2.

Well ID	County	Owner Name	Qtrs	SEC-TWP-RGE	Date Const	Well Type	Use	TD (ft)	Static WL	First Zone	Meas. WL	Est. Yld	WL Graph
78936	Muskogee	Donald Coy	NESWSE	07-15N-19E1	06/03/03	Groundwater Well	Domestic	240	n/a	n/a	n/a	1	
84254	Muskogee	David Reifsteck	SESWSE	07-15N-19E1	08/28/03	Groundwater Well	Domestic	240	n/a	n/a	n/a	1	

Help & Search Results Key

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78936

RECEIVED

JUN 30 2003

Oklahoma Water Resources Board

**MULTI-PURPOSE COMPLETION REPORT
GROUNDWATER WELLS**

Oklahoma Water Resources Board

3800 North Classen Boulevard

Oklahoma City, OK 73118

Telephone (405) 530-8800

Please Plot Well Location



<-- One Mile -->



DO NOT WRITE IN THIS SPACE

NE 1/4 SW 1/4 SE 1/4

LEGAL DESCRIPTIONof Sec. 7 Twp. 15N Rge. 19E**OPTIONAL INFORMATION**

Latitude _____

Longitude _____

County MUSKOGEE

Well No. _____

Well Owner

DONALD COY

Phone _____

Address/City/State/Zip

3208 PARK LANE NORTH MUSKOGEE, OK 74403

Finding Location

TYPE OF WORK☐ Groundwater Well Test Hole☐ Fresh Water Obs. Well☒ Groundwater Well☐ Plugging☐ De-Watering Well☐ Groundwater Heat Pump Well☐ Other _____**GROUNDWATER WELL USE**☒ Domestic/Stock☐ Industrial☐ Public Water Supply☐ Irrigation☐ Agriculture☐ Commercial☐ Other _____**NEW BORING OR WELL CONSTRUCTION DATA**

* Use additional sheets of paper if there are not enough spaces for all well construction information.

Date Started 6-3-03Date Completed 6-3-03Type of Construction ☒ Open Hole☒ Cased HoleHole Diameter 9 5/8 inches From 0 feet to 37 feetHole Diameter 6 1/8 inches From 37 feet to 240 feet**CASING RECORD:**Surface Pipe (Casing Diameter) 6 5/8 inches From 0 feet to 37 feet

Well Casing Diameter _____ inches From _____ feet to _____ feet

SCREEN OR PERFORATION RECORD: N/A

Type and Slot Size _____ From _____ feet to _____ feet

Type and Slot Size _____ From _____ feet to _____ feet

FILTER PACK: N/A

Type and Size _____ From _____ feet to _____ feet

Type and Size _____ From _____ feet to _____ feet

SEAL:Type of Surface Seal Cement From 0 feet to 37 feet

TYPE OF COMPLETION: N/A

☐ Above Ground☐ Pitless Adaptor

HYDROLOGIC DATA

78936

Depth of water at time of drilling N/A Estimated yield of well 1 gpmDrawdown: Pumping Test: Depth of water before start of test was _____ feet. Well was pumped/
bailed at _____ hours, which resulted in a drawdown depth to water of _____ feet.

LITHOLOGIC LOG

MATERIAL (indicate with a \checkmark if zone is saturated.)	ENCOUNTERED		MATERIAL (indicate with a \checkmark if zone is saturated.)	ENCOUNTERED	
	From (feet)	To (feet)		From (feet)	To (feet)
SAND	0	30			
SHALE	30	100			
SAND LIME	100	160			
SHALE/SANDSTONE	160	240			
H ₂ O	100				

WELL LOCATION

Are there any structures within 300 feet of the well? ☒ yes ☐ noDistance from the nearest possible source of pollution. (A minimum of 50 feet is required if the well is up-gradient,
75 feet if the well is level, and 100 feet if the well is down-gradient.)Distance 120 feet from type or source SEPTICLocation of source from well: ☐ Up-Gradient ☐ Level ☐ Down-GradientHas this well been disinfected after completion of work? ☒ Yes ☐ NoIf this well is a replacement well, has old well been abandoned properly? ☐ Yes ☐ NoPLUGGING DATA N/ADate Plugged _____ Tremied? ☐ Yes ☐ No

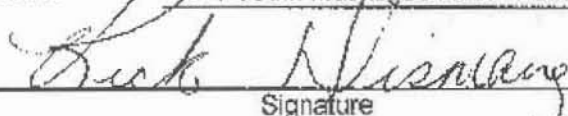
Backfilled From _____ feet to _____ feet with _____

Grouted From _____ feet to _____ feet with _____

Cement Grouted from _____ feet to _____ feet.

CERTIFICATION

The work described above was done under my supervision. This report is correct to the best of my knowledge.

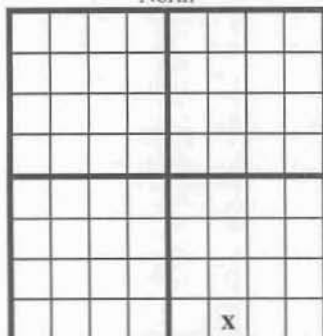
Firm Name Venture Drilling Inc.D/PC No. 0215Operator Name Rick DismangOP No. 0928Address 4811 South Muskogee Ave. Tahlequah, OK 74464Phone (918) 456-8119

 Signature
Date 6-24-03



MULTI-PURPOSE WELL COMPLETION & PLUGGING REPORT

Oklahoma Water Resources Board
3800 North Classen Boulevard
Oklahoma City, OK 73118
Telephone (405) 530-8800

Legal Location
North



«———— One Mile —————»
Each square is 10-acres

WELL ID NUMBER: 84254

Quarters SE-SW-SE

Section 07

Township 15N

Range 19E

Latitude 35.785087

Longitude -95.328343

Date collected(latitude and longitude), if different from date the well was drilled: 03/16/2004

Method latitude and longitude was collected: Mathematical conversion program

County Muskogee

Variance Request No. (if applicable) n/a

WELL OWNER - NAME AND ADDRESS

Well Owner David Reifsteck

Phone (918) 682-5518

Address/City/State 2404 Old Shawnee Rd. Muskogee OK

Zip 74403

Finding Location _____

Well Name _____

Water Rights #: _____

TYPE OF WORK: Groundwater Well

USE OF WELL: Domestic

NEW WELL CONSTRUCTION DATA

Date Well or Boring Was Completed 08/28/2003

Number of wells or borings represented by this log 1

* (Borings are within the same 10 acre-tract and with the same general depths and lithologies)

Hole Diameter 9.625 inches to a depth of 41 ft.

Hole Diameter 6.125 inches to a depth of 240 ft.

CASING INFORMATION *Note: If surface casing is used please indicate that on the appropriate well casing information line.

Surface Pipe Material: _____ Surface Pipe Diameter 6.625 inches Surface Pipe From 0 ft to 41 ft

SCREEN OR PERFORATION INFORMATION

FILTER PACK INFORMATIONFilter Pack Material: **WELL SEAL INFORMATION**Type of Surface Seal Cement GroutType of Annular Seal n/aFilter Pack Seal Material n/aSurface Seal Interval: From 0 ft to 41 ftAnnular Seal Interval: From n/a ft to n/a ftFilter Pack Seal Interval: From n/a ft to n/a ftTYPE OF COMPLETION: **HYDROLOGIC INFORMATION**Depth to water at time of drilling ftEstimated yield of well 1 gpmFirst water zone ft**LITHOLOGY DESCRIPTION**

MATERIAL	ENCOUNTERED		SATURATED
	FROM (ft.)	TO (ft.)	
clay	0	10	N
sand	10	40	N
shale black	40	100	N
sand lime	100	110	N
shale gray	110	135	N
sand lime	135	145	N
shale gray	145	225	N
sand lime	225	235	N
shale gray	235	240	N

WELL LOCATION TO POTENTIAL SOURCES OF POLLUTIONHas this well been disinfected after completion of work? YesAre there any potential sources of pollution or wastewater lagoons within 300 ft. of the well? n/aDistance of Well is n/a from possible source. Type of possible source: n/a**PLUGGING INFORMATION**Date Well or Boring Was Plugged n/aTotal Depth of well being plugged ft.Was the well contaminated or was it plugged as though it was contaminated? n/aIf the well or boring was plugged as if it was contaminated, was the casing removed or perforated? n/aWas the grout tremied? n/aBackfilled with n/aBackfilled from ft. to ft.Grouted with n/aGrouted from ft. to ft.Grouted with CementGrouted from ft. to ft.Firm Name Venture Drilling, Inc.D/PC No. DPC-0215Operator Name OP No. Date 12/22/2003Comments: n/a

No Results

We have completed the water well search within your area of interest, '17-20, 15N, 19E1' in Oklahoma and no water wells records were found in this area.

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No Results

We have completed the water well search within your area of interest, '28-33, 15N, 19E1' in Oklahoma and no water wells records were found in this area.

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Download Results to CSV

(ALT-D)

New Search

(ALT-N)

Graph Water Levels

(ALT-G)

Save Wells for Graphing


(ALT-W)

View Drought Monitoring Map and Water Level Graphs

Help & Search Results Key

Search Results for 1-17, 14N, 18E1

Displaying Results 1 through 4 of 4.

Well ID	County	Owner Name	Qtrs	SEC-TWP-RGE	Date Const	Well Type	Use	TD (ft)	Static WL	First Zone	Meas. WL	Est. Yld	WL Graph
23574	Muskogee	Mr. James Davenport, Jr.	SESWSW	01-14N-18E1	09/20/84	Groundwater Well	Domestic	200	n/a	n/a	n/a	n/a	
36841	Muskogee	Jack Ashwood	NWNWSE	10-14N-18E1	09/23/96	Groundwater Well	Domestic	175	n/a	113	n/a	.5	
68508	Muskogee	Muskogrr Land Fill	SESENE	06-14N-18E1	09/13/93	Groundwater Well	Domestic	50	n/a	n/a	n/a	n/a	
79586	Muskogee	Bret Sherhaut	SWSESE	12-14N-18E1	06/25/03	Groundwater Well	Domestic	300	n/a	n/a	n/a	2	

Help & Search Results Key

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MULTI-PURPOSE WATER WELL REPORT

STATE OF OKLAHOMA
WATER RESOURCES BOARD
1000 N.E. 10th St., P.O. Box 53585
Oklahoma City, Oklahoma 73152

Application No. _____
Aquifer _____
Stream System Code _____
Use Code _____
County _____
(Official Use Only)

#23574

1. OWNER Mrs. James Davenport, Jr. ADDRESS PO Box 682
Muskogee, OK 74401 PHONE 682-2553
2. LEGAL DESCRIPTION OF WELL SE 1/4 of SW 1/4 of sec. 1 : TWP. 14 N S. RGE 18 ECM; COUNTY Muskogee

3. TYPE OF WORK

☒ New Well ☐ Plugging
☐ Reconditioning Work
☐ Test/Monitoring

4. USE

☒ Domestic
☐ Stock
☐ Test/Monitoring

NON-DOMESTIC

☐ Irrigation
☐ Municipal
☐ Industrial
☐ Commercial
☐ Other

5. DRILLING METHOD

☒ Rotary ☐ Rev. Rotary
☐ Cable ☐ Other
☐ Air

6. LOG

Material	From	To	Remarks
OB	0	13'	
Shale	13'	114'	
Lime	114'	137'	
Shale	137'	164'	
Lime	164'	178'	
Shale	178'	200'	

Water at 68'
1/2 G.P.M.

Determined by air
on Rig

7. LOCATION PERMIT

If this well is Non-Domestic, has this location been permitted?

☐ Yes ☐ No Permit No. _____

8. NEW WELL CONSTRUCTION DATA

DATES: Started 9-20-84 Completed 9-20-84
Contractor Webster's Drilling Co., Inc.
Driller Jim Webster
Diameter Hole 6 in. Total Depth 200 ft.

CASING RECORD

Inside Diameter 6 1/8 in. From 0 ft. To 15 ft.
Outside Diameter 6 3/8 in. From _____ ft. To _____ ft.
Cement Grout Surface Seal ☒ Yes ☐ No
Type of Surface Seal: cement Depth of Seal: 10 ft.

GRAVEL PACKED:

Gravel Packed From None ft. to _____ ft.
Amount Used _____

PERFORATION RECORD

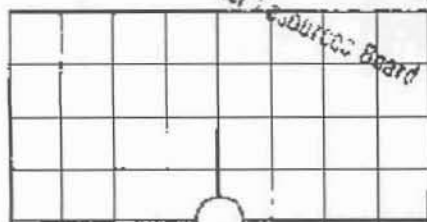
Type/Size None From _____ ft. To _____ ft.
From _____ ft. To _____ ft.
From _____ ft. To _____ ft.

9. WELL TEST DATA

We did not test pump this well
Static Water Level Below Land Surface _____ ft.
If Artesian: Flows _____ gpm.
Approximate Yield _____ gpm.

11. PLAT

10 AC

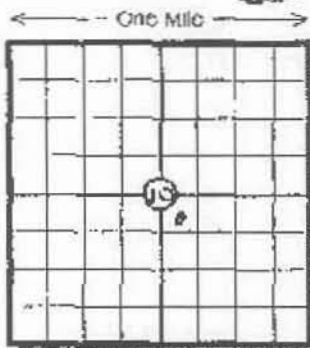


10. PLUGGING DATA

Date Plugged NA
Backfilled With _____ Material To _____ ft.
Grouted or Cemented From _____ ft. To _____ ft.
Plot Location in Lem 11. Show Distances From 2 Section Lines.

Please Plot Well Location

☐ Ten Acres



MULTI-PURPOSE COMPLETION REPORT

OKLAHOMA WATER RESOURCES BOARD
3800 North Classen Blvd
OKLAHOMA CITY, OK. 73118

RECEIVED

OCT 18 1996

LEGAL DESCRIPTION

DO NOT WRITE IN THIS SPACE
NW 1/4 NW 1/4 SE 1/4

36841 Oklahoma Water Resources Board
of Sec. 10 Twp. 14N Rge. 18E

County Muskogee Well No. _____
Well Owner Jack Ashwood Phone 918 682-7975
Address 1440 W. Smith Ferry Blvd Muskogee Zip 74401
Finding Location _____

TYPE OF WORK

- ☐ Geotechnical Boring
☐ Groundwater Heat Pump Well
☐ Monitoring Well

- ☐ Fresh Water Obs. Well
☐ Site Assessment Obs. Well
☐ Piling

- ☐ Reconditioning
☐ Groundwater Well Test Flows
☒ Groundwater Well

- ☐ De-watering
☐ Other: _____

GROUNDWATER WELL PERMITTED USE

- ☒ Domestic* (No Permitting Required)
☐ Non-Domestic (OWRB Permitting Required)
Specify Purpose(s): _____

NOTE: If this groundwater well is for other than domestic use*, provide OWRB Groundwater Permit No: _____

*Domestic Use is use of water for household purposes or for farm and domestic animals up to the normal grazing capacity of the land and for the irrigation of land not to exceed three (3) acres.

DRILLING METHOD

- ☐ Hand Auger
☐ Cable Tool
☒ Air Rotary

- ☐ Fluid Rotary
☐ H.S. Auger
☐ S.S. Auger

- ☐ Rev. Rotary
☐ D.V. Rev. Rotary

- ☐ Other: _____

NEW BORING OR WELL CONSTRUCTION DATA

Date Started Sept 19, 1996 Date Completed Sept 23, 1996
Operator Rich Dismang Operator No. 0928

Type of Construction: ☐ Open Hole ☒ Cased Hole ☐ Temporary ☐ Permanent
Hole Diameter 9 5/8 inches From 0 feet to 40 feet
Hole Diameter 6 1/8 inches From 40 feet to 175 feet

SURFACE CASING RECORD:

Surface Casing Diameter 6 5/8 inches From 0 feet to 40 feet

CASING RECORD:

Well Casing Diameter _____ inches From _____ feet to _____ feet
Well Casing Diameter _____ inches From _____ feet to _____ feet

SCREEN OR PERFORATION RECORD:

Type and Slot Size _____ From _____ feet to _____ feet
Type and Slot Size _____ From _____ feet to _____ feet

FILTER PACK:

Type and Size _____ From _____ feet to _____ feet
Type and Size _____ From _____ feet to _____ feet

SEAL:

Cement Grout Surface Seal Installed? ☒ Yes ☐ No

Type of Surface Seal Cement From 0 feet to 40 feet
Type of Annular Seal _____ From _____ feet to _____ feet
Type of Filter Pack Seal _____ From _____ feet to _____ feet

36841

LITHOLOGIC LOG

MATERIAL	ENCOUNTERED		INDICATE SATURATION
	FROM FEET	TO FEET	
Overburden	0	3	
Clay	3	8	
Shale	8	55	
Sand + Shale	55	101	
Lime	101	110	
Sand Shale	110	120	4
Gray Shale	120	140	
Sand Shale	140	150	
Black Shale	150	160	
Sand Shale	160	175	

HYDROLOGIC DATA

First Water Zone Encountered 113 feet Approximate Yield 42 GPM Flowing Artesian? ☐ Yes ☒ No
 Measured Water Level _____ feet below land surface. After Drilling _____ hours

WELL LOCATION - No House there

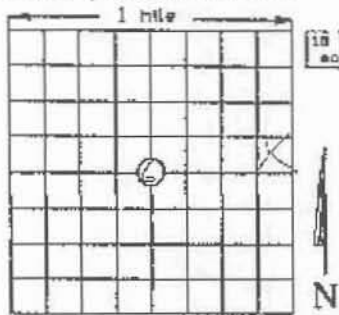
Distance from the nearest possible source of pollution. (A minimum of 50 feet is required if the well is ungradient, 75 feet if the well is level, and 100 feet if the well is down gradient.)

MULTI-PURPOSE COMPLETION REPORT

OKLAHOMA WATER RESOURCES BOARD
800 N. HARVEY AVE.
P.O. BOX 150
OKLAHOMA CITY, OK 73101-0150

68508

Please plot well location



Legal Description

SE 1/4 SE 1/4 NE 1/4 of Sec. 6 Twp. 14N Rge. 18E
County Muskogee Well No: BH-2, 3, 4, 17, 11, 10, 9, 16, 15, 8, 12, 1,
Well Owner Muskogee Land Fill c/o Rust E & I Phone (713) 875-8804
Address 1002 Glenborough, Suite 300, Houston, TX 77067
Finding location Tract A, Muskogee Landfill

Type of work		G.W. Permitted Use		Drilling Method	
<input checked="" type="checkbox"/> Geotechnical Boring	<input type="checkbox"/> Pump Inst. *	<input type="checkbox"/> Domestic (None Required)	<input type="checkbox"/> Hard Auger	<input type="checkbox"/> Rev. Rotary	
<input type="checkbox"/> G.W. Heat Pump Well	<input type="checkbox"/> Reconditioning	<input type="checkbox"/> Non-Domestic	<input type="checkbox"/> Cable Tool	<input type="checkbox"/> D.W. Rev. Rotary	
<input type="checkbox"/> Monitor Well	<input type="checkbox"/> G.W. Well Test Hole	<input type="checkbox"/> Specify Purpose	<input type="checkbox"/> Air Rotary	<input type="checkbox"/> Other	
<input type="checkbox"/> Observation Well	<input type="checkbox"/> De-watering		<input type="checkbox"/> Fluid Rotary		
<input type="checkbox"/> Piezometer	<input type="checkbox"/> Groundwater Well		<input checked="" type="checkbox"/> H.S. Auger		
<input type="checkbox"/> Plugging			<input type="checkbox"/> S.S. Auger		

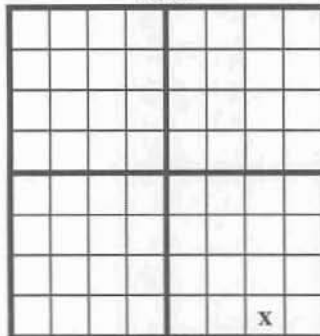
Lithologic Log		Non-Domestic (OWRB Permitting Required)	
Material	From To		
Clay	0 15	If this groundwater well is for other than domestic use (use of water for household purposes, for farm and domestic animals up to the normal grazing capacity of the land & for the irrigation of land not to exceed 3 acres) Permit No: _____	
Shale & Sandstone	15 50	New Boring or Well Construction Data Date: Started 9/13/93 Completed 9/13/93 Firm A.W. Pot. Inc. Operator Vince Barroza Op. No. 10244 Type of Construction <input checked="" type="checkbox"/> Open Hole <input type="checkbox"/> Cased Hole <input checked="" type="checkbox"/> Temporary <input type="checkbox"/> Permanent Hole Diameter 6 inches total depth 50 feet Hole Diameter _____ inches total depth _____ feet	
		CASING RECORD diameter from to Surface casing _____ inches _____ feet _____ feet Well casing _____ inches _____ feet _____ feet Well casing _____ inches _____ feet _____ feet Well casing _____ inches _____ feet _____ feet	
		SCREEN or PERFORATION RECORD Type and Slot Size from to _____ feet _____ feet _____ feet _____ feet _____ feet _____ feet	
		FILTER PACK Type and Size from to _____ feet _____ feet _____ feet _____ feet _____ feet _____ feet	
		SEAL Cement Grout Surface Seal Installed <input type="checkbox"/> Yes <input type="checkbox"/> No Type of Surface Seal from to feet feet Annular Seal Type _____ feet _____ feet Type of Filter Pack Seal _____ feet _____ feet	
		TYPE OF COMPLETION <input type="checkbox"/> Above Ground <input type="checkbox"/> Pitless Adapter <input type="checkbox"/> Flush Mounted	
		SURFACE PAD (Size in Feet) _____ X _____ inches	
		HYDROLOGIC DATA First Water Zone Encountered _____ ft. Approximate Yield GPM Flowing Artesian <input type="checkbox"/> Yes <input type="checkbox"/> No	



MULTI-PURPOSE WELL COMPLETION & PLUGGING REPORT

Oklahoma Water Resources Board
3800 North Classen Boulevard
Oklahoma City, OK 73118
Telephone (405) 530-8800

Legal Location
North



«———— One Mile —————»
Each square is 10-acres

WELL ID NUMBER: 79586

Quarters SW-SE-SE

Section 12

Township 14N

Range 18E1

Latitude 35.697812

Longitude -95.343762

Date collected(latitude and longitude), if different from date the well was drilled: 08/26/2003

Method latitude and longitude was collected: Interpolation from PLSS

County Muskogee

Variance Request No. (if applicable) n/a

WELL OWNER - NAME AND ADDRESS

Well Owner Bret Sherhaut

Phone (000) 682-1475

Address/City/State 4411 Prairie Dor Dr. Muskogee OK

Zip 74403

Finding Location _____

Well Name _____

Water Rights #: _____

TYPE OF WORK: Groundwater Well

USE OF WELL: Domestic

NEW WELL CONSTRUCTION DATA

Date Well or Boring Was Completed 06/25/2003

Number of wells or borings represented by this log 1

* (Borings are within the same 10 acre-tract and with the same general depths and lithologies)

Hole Diameter 9 inches to a depth of 20 ft.

Hole Diameter 6 inches to a depth of 300 ft.

CASING INFORMATION *Note: If surface casing is used please indicate that on the appropriate well casing information line.

Surface Pipe Material: _____ Surface Pipe Diameter _____ inches Surface Pipe From _____ ft to _____ ft

SCREEN OR PERFORATION INFORMATION

FILTER PACK INFORMATIONFilter Pack Material: **WELL SEAL INFORMATION**Type of Surface Seal n/aType of Annular Seal n/aFilter Pack Seal Material n/aSurface Seal Interval: From n/a ft to n/a ftAnnular Seal Interval: From n/a ft to n/a ftFilter Pack Seal Interval: From n/a ft to n/a ftTYPE OF COMPLETION: **HYDROLOGIC INFORMATION**Depth to water at time of drilling ftEstimated yield of well 2 gpmFirst water zone ft**LITHOLOGY DESCRIPTION**

MATERIAL	ENCOUNTERED		SATURATED
	FROM (ft.)	TO (ft.)	
no lithological description obtained			

WELL LOCATION TO POTENTIAL SOURCES OF POLLUTIONHas this well been disinfected after completion of work? n/aAre there any potential sources of pollution or wastewater lagoons within 300 ft. of the well? n/aDistance of Well is n/a from possible source. Type of possible source: n/a**PLUGGING INFORMATION**Date Well or Boring Was Plugged n/aTotal Depth of well being plugged ft.Was the well contaminated or was it plugged as though it was contaminated? n/aIf the well or boring was plugged as if it was contaminated, was the casing removed or perforated? n/aWas the grout tremied? n/aBackfilled with n/aBackfilled from ft. to ft.Grouted with n/aGrouted from ft. to ft.Grouted with CementGrouted from ft. to ft.Firm Name Websters Drilling Co. IncD/PC No. DPC-0223Operator Name OP No. Date n/aComments: n/a

Download Results to CSV

(ALT-D)

New Search

(ALT-N)

Graph Water Levels

(ALT-G)

Save Wells for Graphing



















(ALT-W)

View Drought Monitoring Map and Water Level Graphs

Help & Search Results Key

Search Results for 21-24, 15N, 19E1

Displaying Results 1 through 18 of 18.

Well ID	County	Owner Name	Qtrs	SEC-TWP-RGE	Date Const	Well Type	Use	TD (ft)	Static WL	First Zone	Meas. WL	Est. Yld	WL Graph
14410	Muskogee	C. T. Morgan	NWNWNE	22-15N-19E1	05/04/82	Groundwater Well	Irrigation	46	n/a	15.1	n/a	206.5	
14411	Muskogee	C. T.morgan	NENENW	22-15N-19E1	04/30/82	Groundwater Well	Irrigation	40	n/a	9.1	n/a	70	
14412	Muskogee	Greenleaf Nursery Co.	NWNWSE	23-15N-19E1	01/03/90	Groundwater Well	Irrigation	40	n/a	11	n/a	614	
23581	Muskogee	Ozark Nursery Co.	NWNWNW	23-15N-19E1	12/06/57	Groundwater Well	Irrigation	42	n/a	12	n/a	550	
23582	Muskogee	Ozark Nursery Company	NWNENW	23-15N-19E1	12/06/57	Groundwater Well	Irrigation	39	n/a	10	n/a	654	
26956	Muskogee	Okla. Gas & Elec. Co.	SWSENE	21-15N-19E1	12/07/61	Groundwater Well	Industrial	42	n/a	23	n/a	340	
26957	Muskogee	Ozark Nurseries Co.	SESWNE	22-15N-19E1	08/06/62	Groundwater Well	Irrigation	48	n/a	20	n/a	500	
26958	Muskogee	Ozark Nurseries Comapny	NWSWNE	22-15N-19E1	08/09/63	Groundwater Well	Irrigation	48	n/a	20	n/a	485	
41363	Muskogee	Okla Gas & Elec Co	SENE	21-15N-19E1	06/21/37	Groundwater Well	Industrial	48	n/a	24	n/a	n/a	
45654	Muskogee	Green Leaf Nursery Company	NWNENW	23-15N-19E1	08/19/99	Groundwater Well	Irrigation	38	n/a	7	n/a	500	
68503	Muskogee	N/a	NWSWNE	23-15N-19E1	11/27/89	Groundwater Well	Observation Well	40	n/a	n/a	n/a	n/a	
68504	Muskogee	N/a	NESWNE	23-15N-19E1	12/13/89	Groundwater Well	Observation Well	40	n/a	n/a	n/a	n/a	
68505	Muskogee	Greenleaf Nursery Co	NENWNE	23-15N-19E1	11/27/89	Groundwater Well	Observation Well	40	n/a	n/a	n/a	n/a	
73090	Muskogee	Greenleaf Nursery Co.	SWSENE	23-15N-19E1	10/01/01	Groundwater Well	Irrigation	40	n/a	12	n/a	400	
73092	Muskogee	Greenleaf Nursery Co.	SESENE	23-15N-19E1	05/21/02	Groundwater Well	Irrigation	39	n/a	2	n/a	284	
73093	Muskogee	Greenleaf Nursery Co.	SESWNE	23-15N-19E1	05/21/02	Groundwater Well	Irrigation	37	n/a	7	n/a	284	
87236	Muskogee	Greenleaf Nursery Company	SENE	23-15N-19E1	05/27/04	Groundwater Well	Irrigation	37	8	8	n/a	455	
87602	Muskogee	Og&e	NWNWSW	22-15N-19E1	06/03/04	Groundwater Well	Commercial	57	29	29	n/a	300	

Help & Search Results Key

White - Water Resources Board
Canary - Drillers Copy
Pink - Drillers Copy

STATE OF OKLAHOMA
WATER RESOURCES BOARD
1000 N.E. 10TH STREET, P.O. BOX 53585
OKLAHOMA CITY, OKLAHOMA 73152

Application No. _____
County _____
MAY 6 1982 (Use Only)

MULTI-PURPOSE WATER WELL REPORT

Oklahoma Water Resources Board

1. OWNER C.T. MORGAN ADDRESS 14 SPRING CREEK ROAD
MUSKOGEE OKLA. PHONE 918 635 5212
2. LEGAL DESCRIPTION OF WELL
NW 1/4 of NW 1/4 of NE 1/4 of sec. 22 TWP. 15 N S. Rge. 19 EIM
WIM
ECM; COUNTY MUSKOGEE

3. TYPE OF WORK
☒ New Well ☐ Plugging
☐ Reconditioning Work ☐ Test
4. PROPOSED / PAST USE
☐ Domestic ☒ Irrigation ☐ Stock
☐ Municipal ☐ Industrial ☐ Test
5. DRILLING METHOD
☐ Rotary ☒ Rev. Rotary
☐ Cable ☐ Other

6. LOG 7. NEW WELL CONSTRUCTION DATA

Material	From	To	Notes
			10'
BROWN CLAY	0	15'	
			30'
FINE SAND	15'	22'	
			30'
MED. SAND & SMALL GRAVEL	22'	28'	
CORSE SAND & GRAVEL	28'	31'	
			40'
	31'	46'	
46' SHALE			

Dates: Started 5-4-82 Completed 5-4-82
Contractor SOUTHERN WELL POINT
Driller BILLY DEMARCUS
Diameter Hole 2 1/2" in. Total Depth 46' ft.
CASING RECORD
Diameter From To
8" PVC in. 2' ABOVE GROUND ft. - 26' ft.
Surface Seal: ☒ Yes ☐ No Type: G. ROUTE
Depth of Seal: 10' ft.
Gravel Packed:
Gravel Packed From 10' ft. to 46' ft.
Amount Used: _____
PERFORATION RECORD
Type PVC From 46' ft. To 26' ft.
Size 2" From _____ ft. To _____ ft.
" From _____ ft. To _____ ft.

8. WELL TEST DATA
Static Water Level Below Land Surface 15' 10" ft.
If Artesian: Flows NONE gpm.
Water Temp. 54 °C/F Quality _____

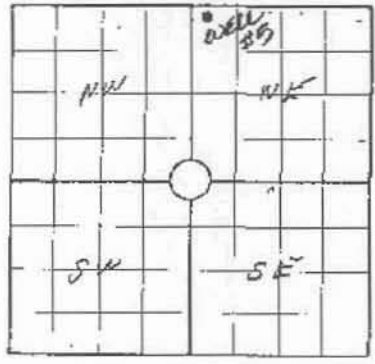
9. BAILER TEST
Drawdown _____ ft. After Pumping _____ hrs. At _____ gpm.
Size of Bailer: _____ gal.

PUMPING TEST
Drawdown 26' 9" ft. After Pumping 1 hrs. At 206.5 gpm.

9. PLUGGING DATA
Date Plugged _____
Backfilled With _____ Material To _____ ft.
Grouted or Cemented From _____ ft. To _____ ft.
Plot Location in Item 11. Show Distances From 2 Section Lines.

10. RECONDITIONING WORK
Date Completed _____
☐ Replaced Casing From _____ ft. To _____ ft.
☐ Replaced Screen From _____ ft. To _____ ft.
Deepened Well From _____ ft. To _____ ft.
Redeveloped Well By _____

13. CERTIFICATION
The work described above was done under my supervision, and this report is true and correct to the best of my knowledge.

11. PLAT

NW 1/4 of NW 1/4 of NE 1/4 of SEC 22
TWP 15 N S. RGE 19 EIM, WIM, ECM
12. PUMP INFORMATION
Pump Type Vertical

White -- Water Resources Board
Canary -- Drillers Copy
Pink -- Drillers Copy
WELL #3

STATE OF OKLAHOMA
WATER RESOURCES BOARD
1000 N.E. 10th St., P.O. Box 53585
Oklahoma City, Oklahoma 73152

Application No. 81-695
Aquifer _____
Steam System Code _____
Use Code _____
County _____
(Official Use Only)

MULTI-PURPOSE WATER WELL REPORT

1. OWNER C.T. MORGAN ADDRESS 14 SPRING CREEK ROAD
MUSKOGEE OKLA PHONE 918 835 5217
2. LEGAL DESCRIPTION OF WELL EIM
WIN
N.E. 1/4 of NE 1/4 of NW 1/4 of sec. 22 TWP. 15 N S; Rge. 19 ECM; COUNTY MUSKOGEE

3. TYPE OF WORK

☒ New Well ☐ Plugging
☐ Reconditioning Work ☐ Test

4. PROPOSED / PAST USE

☐ Domestic ☒ Irrigation ☐ Stock
☐ Municipal ☐ Industrial ☐ Test

5. DRILLING METHOD

☐ Rotary ☒ Rev. Rotary
☐ Cable ☐ Other _____

LOG			
Material	From	To	Saturated
BROWN CLAY	0	4'	
			10'
RED CLAY	4'	14'	
FINE SAND	14'	17'	
			20'
CLAY	17'	23'	
			20'
COURSE SAND & SMALL GRAVEL	23'	29'	
			20'
			50'

7. NEW WELL CONSTRUCTION DATA

Dates: Started 4-29-82 Completed 4-30-82
Contractor SOUTHERN WELLPOINT CO.
Driller BILLY DEMARUS
Diameter Hole 30" in. Total Depth 40"

CASING RECORD

Diameter 12" PVC in. From 3'80" GROUT - 20' To _____ ft.
Surface Seal: ☒ Yes ☐ No Type: GROUT
Depth of Seal: 10' ft.
Gravel Packed: _____
Gravel Packed From 30' ft. to 40' ft.
Amount Used: 12 1/2

PERFORATION RECORD

Type PVC From -20' ft. To -40' ft.
Size 12" From -20' ft. To -40' ft.
" From _____ ft. To _____ ft.

8. WELL TEST DATA

Static Water Level Below Land Surface 9'1" ft.
If Artesian: Flows NONE gpm.
Water Temp. 54 °C/F Quality _____

BAILER TEST

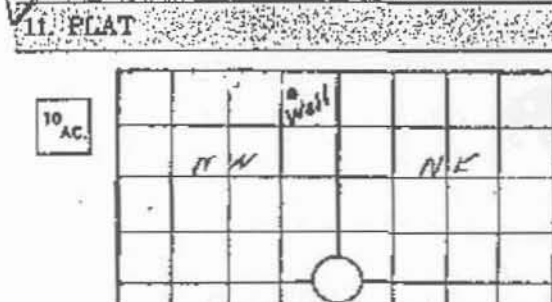
Drawdown _____ ft. After Pumping _____ hrs. At _____ gpm
Size of Bailor: _____ gal.

PUMPING TEST

Drawdown 3 1/2 ft. After Pumping 1 hrs. At 70 gpm

9. PLUGGING DATA

Date Plugged _____
Backfilled With _____ Material To _____ ft.
Grouted or Cemented From _____ ft. To _____ ft.
Plot Location in Item 11. Show Distances From 2 Section Lines.



RECEIVED

MAY 20 1982

Oklahoma Water Resources Board

White—Water Resources Board
Canary—Driller's Copy
Pink—Customer's Copy

STATE OF OKLAHOMA
MULTI-PURPOSE WELL REPORT
OKLAHOMA WATER RESOURCES BOARD
1000 N.E. 10th St., P.O. Box 53585
Oklahoma City, Oklahoma 73152

#14412

1. WELL OWNER Greenleaf Nursery Co. PHONE 1-800-722-805

2. LEGAL DESCRIPTION NW 1/4 of NW 1/4 of SE 1/4 of sec. 23, TWP. 15 S, RCE 19 (Circle One)
OKM COUNTY Muskogee

FINDING LOCATION _____

Blocks or distance(s) from given points)

3. TYPE OF WORK

☒ New Well ☐ Plugging
☒ Reconditioning Work
☐ Monitoring
☐ Test Hole
☐ Other _____

4. USE

☐ Domestic
☐ Stock
☐ Monitoring
☐ Test Hole
☐ Other _____

NON-DOMESTIC

☒ Irrigation
☐ Municipal
☐ Industrial
☐ Commercial
☐ Other _____

5. DRILLING METHOD

☐ Fluid Rotary ☒ Rev. Rotary
☐ Cable ☐ Other _____
☐ Air Rotary
☐ H.S. Auger

6. LITHOLOGIC LOG

Material	From	To	Sealed
Clay	0	7	
Fine Sand	7	15	✓
Fine - Medium Sand	15	30	✓
Medium - Coarse Sand & Gravel	30	40	✓

7. LOCATION PERMIT

If this well is Non-Domestic, has the location been permitted?

☒ Yes ☐ No Permit No. 58-0020

8. NEW WELL CONSTRUCTION DATA

DATES: Started 1-3-90 Completed 1-3-90
Contractor FWBANK INC
Driller CLYDE MCKINLEY
Diameter Hole 24 in. Total Depth _____ ft.

CASING RECORD

Diameter From To
Surface Pipe 12 in. 0 ft. 5 ft.
Well Casing 10 in. 0 ft. 40 ft.
Cement Grout Surface Seal? ☒ Yes ☐ No
Type of Surface Seal: _____ Depth of Seal: 10 ft.

GRAVEL PACK:

Gravel Packed From 10 ft. to 40 ft.
Amount Used: 5 TONS

PERFORATION RECORD

Type/Size
10" PVC .060 From 30 ft. To 40 ft.
From _____ ft. To _____ ft.
From _____ ft. To _____ ft.

9. WELL TEST DATA

Static Water Level
Below Land Surface 11 ft.
Approximate Yield 614 gpm.
If Artesian: Flows _____ gpm.

10. PUMP INFORMATION

Pump Type Beatty Pump 2500
Power Source Electric
Rated Capacity _____ gpm.
Depth of Bore or Cylinder _____ ft.

11. PLUGGING DATA

Date Plugged _____
Backfilled With _____ Material To _____ ft.
Grouted or Cemented From _____ ft. To _____ ft.

12. RECONDITIONING WORK

614 GPM

58-20

#23581

WELL INFORMATION

Owner Ozark Nursery Company
 Address Box 381, Tahlequah, Oklahoma
 Well No. 1 SW 1/4 of NW 1/4 of Section 23 Township 15 Range N 19 E
Muskogee County Elevation _____ ft.

Distance from nearest town or highway junction:

Off corner of Junction of Highway 10 and 62

Intended use (underline): Irrigation, Municipal, Industrial, Other _____

GENERAL DRILLING INFORMATION

(File one for each well)

Contractor A. R. Ewbank Address Fairview, Oklahoma
 Driller A. R. Ewbank Address Fairview, Oklahoma
 Dates: Started November 25, 1957 Completed December 6, 1957
 Type of Rig: Cable tool _____ Rotary X Other _____
 Size of Hole 42" to Bottom 42" and 39" Total Depth Well No. 1 42"
(Example: 5 in. to 55 ft.)
 Water encountered at Well No. 1 12 ft. Well No. 2 10 ft. ft.
 Water stands at Well No. 1 12' feet below the surface.
Well No. 2 10'

TESTS

Bailer test _____ bailers per hour. Size of bailer _____ Gal.
 Pump test Well No. 1 550, No. 2 650 gallons per minute for 6 hours
 Drawdown: _____ feet after pumping or bailing _____ hrs. at _____ GPM.
 Quality of Water: Taste Iron Odor None Color Clear
 Hard _____ Soft _____ Temperature _____

MATERIAL AND EQUIPMENT

Casing record No. 1 - 12" 36' - 12" Screen 36' to 42' No. 2 - 12" 12" to 39'
(Example: 8 in. to 55 ft.; 6 in. 55 to 225 ft.)
 Screen or perforation record No. 1 6' Johnson Screen No. 2 6' Johnson Screen
 Gravel packed X Diameter 42" Amt. of Gravel used 18 and 20 yards
 Pump Type Turbine Rated Capacity 600 — GPM against 70# P.S.I. feet of head.
30' 500
 Depth to bowls or cylinder 30' ft. 65# P.S.I.
 Power: Electric 30 and 40 h.p. Gasoline motor _____ h.p.

J. E. Davis
 Signature of Owner

Jan. 24, 1958
 Date

(OVER)

58-20

#23582

WELL INFORMATION

Owner Ozark Nursery Company
 Address Box 381, Tahlequah, Oklahoma
 Well No. 2 in NE 1/4 of NW 1/4 of Section 23 Township 15 Range N 19 E
Muskogee County Elevation _____ ft.

Distance from nearest town or highway junction:
Off corner of Junction of Highway 10 and 62

Intended use (underline): Irrigation, Municipal, Industrial, Other _____

GENERAL DRILLING INFORMATION
 (File one for each well)

Contractor A. R. Ewbank Address Fairview, Oklahoma
 Driller A. R. Ewbank Address Fairview, Oklahoma
 Dates: Started November 25, 1957 Completed December 6, 1957
 Type of Rig: Cable tool _____ Rotary X Other _____
 Size of Hole 42" to Bottom 42" and 39" Total Depth Well No. 1 42'
 (Example: 8 in. to 55 ft.)
 Water encountered at Well No. 1 12ft. Well No. 2 10ft. ft.
 Water stands at Well No. 1 12' feet below the surface.
Well No. 2 10'

TESTS

Bailer test _____ bailers per hour. Size of bailer _____ Gal.
 Pump test Well No. 1 550. No. 2 650 gallons per minute for 6 hours
 Drawdown: _____ feet after pumping or bailing _____ hrs. at _____ GPM.
 Quality of Water: Taste Iron Odor None Color Clear
 _____ Hard _____ Soft _____ Temperature _____

MATERIAL AND EQUIPMENT

Casing record No. 1 - 12" 36' - 12" Screen 36' to 42' No. 2 - 12" - 12" to 33'
 (Example: 2 in. to 55 ft.; 6 in. 55 to 237 ft.)
 Screen or perforation record No. 1 6' Johnson Screen No. 2 6' Johnson Screen
 Gravel packed X Diameter 42" Amt. of Gravel used 18 and 20 yards
 Pump Type Turbine Rated Capacity 600 GPM against 70# P.S.I. feet of head.
30' 500 65# P.S.I.
 Depth to bowls or cylinder 30' ft.
 Power: Electric 30 and 40 h.p. Gasoline motor _____ h.p.

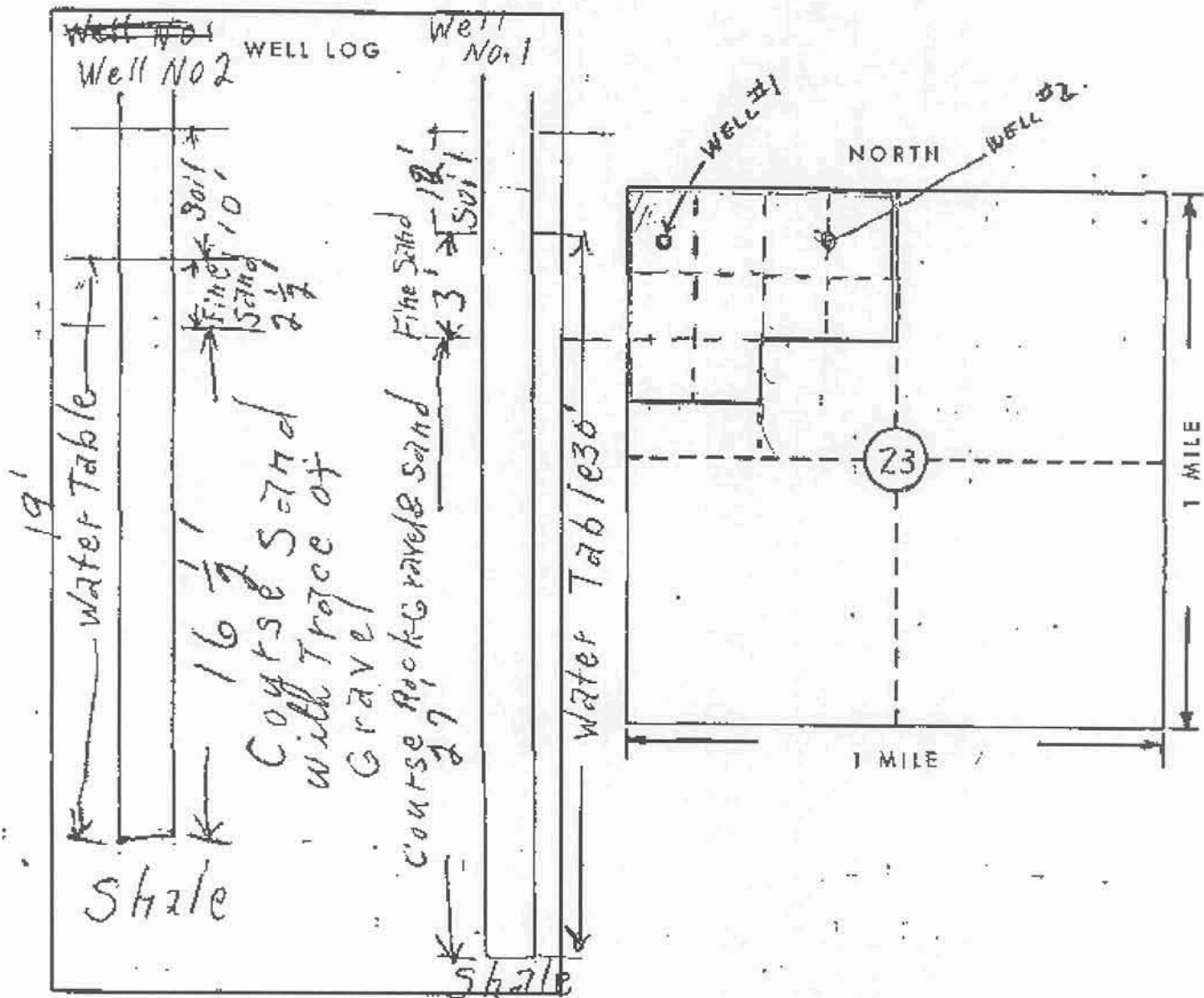
J. E. Davis
 Signature of Owner
Jan. 24, 1958
 Date

(OVER)

23582

INDICATE ON THE MAP BELOW THE LOCATION OF THE WATER SOURCE (AND THE LANDS TO BE IRRIGATED)

SECTION 23 TOWNSHIP 15N RANGE 19E



To be filed in triplicate and mailed to P. O. Box 3125, State Capitol
Oklahoma City, Oklahoma, within sixty (60) days after completion of the wells.

SWEENEY

#26956

WELL INFORMATION

Owner Oklahoma Gas & Electric Company
 Address Oklahoma City, Oklahoma
 Well No. 4 in SW $\frac{1}{4}$ of NE $\frac{1}{4}$ of Section 21 Township 15N Range 19E
Muskogee County Elevation 505 ft.
 Distance from nearest town or highway junction:
4 miles east of Muskogee, Oklahoma
 Intended use (underline): Irrigation, Municipal, Industrial, Other _____

GENERAL DRILLING INFORMATION

(File one for each well)

Contractor Earl R Kelley Address Oklahoma City, Oklahoma
 Driller Earl R Kelley Address Oklahoma City, Oklahoma
 Dates: Started _____ Completed December 7, 1961
 Type of Rig: Cable tool _____ Rotary _____ Other Orange Peel
 Size of Hole _____ 42" Total Depth 42'
 (Example: 8 in. to 55 ft.)
 Water encountered at: 20' to _____ ft. 40' ft. _____ ft.
 Water stands at 0 23 feet below the surface.

TESTS

Bailer test _____ bailers per hour. Size of bailer _____ Gal.
 Pump test 340 gallons per minute for 8 hours
 Drawdown: 8' 9" feet after pumping or bailing 8 hrs. at 340 GPM.
 Quality of Water: Taste None Odor None Color None
 Hard X Soft _____ Temperature 63°F
 See attached analysis

MATERIAL AND EQUIPMENT

Casing record 12" OD to 37' Cemented down 10'
 (Example: 8 in. to 55 ft.; 8 in. 55 to 227 ft.)
 Screen or perforation record 12" x 5' Everdur Metal Screen. Slot size 0.125"
 Gravel packed Yes Diameter 42" Amt. of Gravel used 14 cu yds
 Pump Type Turbine Rated Capacity 250 GPM against 157 feet of head.
 Depth to bowls or cylinder 33 ft.
 Power: Electric 30 h.p. Gasoline motor None h.p.

Under ground Water
 Application #55-715

OKLAHOMA GAS AND ELECTRIC COMPANY

BY [Signature]
 Signature of Owner or Vice President

May 23, 1962

Date

(OVER)

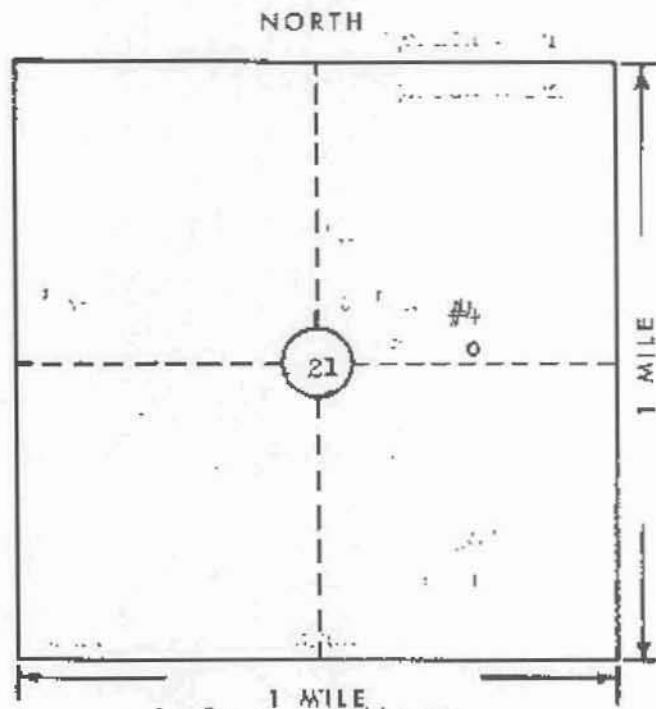
26956

INDICATE ON THE MAP BELOW THE LOCATION OF THE WATER SOURCE (~~AND OTHER LANDS OWNED BY THE FEDERAL GOVERNMENT~~)

SECTION 21 TOWNSHIP 15N RANGE 19E

WELL LOG

0-2.5'	Soil silt
2.5-5'	Red soil, sand
5-7.5'	Sandy soil
7.5-10'	Light sand
10-12.5'	Silt sand
12.5-15'	White sand
15-17.5'	Sand, some rock
17.5-20'	Sand, some rock
20-22.5'	Rock, sand, silt
22.5-25'	Rock, sand, silt
25-27.5'	Gravel, sand
27.5-30'	Gravel, sand
30-32.5'	Clear sand, rock
32.5-35'	Wood, trash, rotten logs.
35-37.5'	Gravel, rock, sand
37.5-40'	Sand, gravel



To be filed in triplicate and mailed to P. O. Box 3125, State Capitol
Oklahoma City, Oklahoma, within sixty (60) days after completion of the wells.

#26957

APPLICATION No. 63-214

COUNTY - MUSKOGEE

WELL INFORMATION

SE SUNE

Owner OZARK NURSERIES COMPANY
Address Route 2, Tahlequah, Oklahoma
Well No: 1 in N $\frac{1}{2}$ $\frac{1}{4}$ of $\frac{1}{4}$ of Section 22 Township 15N Range 19E
Muskogee County Elevation _____ ft.

Distance from nearest town or highway junction:

2 Miles south and west of Fort Gibson, OklahomaIntended use (underline): Irrigation, Municipal, Industrial, Other _____

GENERAL DRILLING INFORMATION

(File one for each well)

Contractor Phil Ewbank Address Fairview, Oklahoma
Driller Phil Ewbank Address Same
Dates: Started August 4, 1962 Completed August 6, 1962
Type of Rig: Cable tool _____ Rotary X Other 1. NOT
Size of Hole 48" to 48 feet Total Depth 48 feet
(Example: 8 in. to 55 ft.)
Water encountered at: _____ ft. _____ ft. _____ ft.
Water stands at 20 feet feet below the surface.

TESTS

Bailer test _____ bailers per hour. Size of bailer _____ Gal.
Pump test 480 gallons per minute for 2 hours
Drawdown: Limit feet after pumping or bailing 1 hrs. at 500 GPM.
Quality of Water: Taste None Odor None Color Clear
Hard _____ Soft X Temperature _____

MATERIAL AND EQUIPMENT

Casing record 12" to 38'. 12" gravel screen to 48 feet
(Example: 8 in. to 55 ft.; 4 in. 55 to 227 ft.)
Screen or perforation record 10 feet of Galv. Steel Johnson Screen 12" dia.
Gravel packed Yes Diameter 48" Amt. of Gravel used 18 yards
Pump Type Turbine Rated Capacity 500 GPM against 185 feet of head.
Depth to bowls or cylinder 40'6" ft.
Power: Electric 30 h.p. Gasoline motor _____ h.p.

Sam Davis
Spec. Vice-President
Signature of Owner

August 7, 1963

Date

(OVER)

26958

APPLICATION No. 63-214
COUNTY - MUSKOGEE

NW 1/4

WELL INFORMATION

OWNER OZARK NURSERIES COMPANYADDRESS Route 2, Tahlequah, Okla.WELL NO. 2 IN N 1/4 OF _____ OF SEC. 22 TWP. 15N RGE. 19E,
Muskogee COUNTY ELEVATION _____ FT.

Distance from nearest town or highway junction:

2 Miles South and West of Fort Gibson, OklahomaIntended use (Underline): Irrigation, Municipal, Industrial, OtherGENERAL DRILLING INFORMATION
(File one for each well)

Contractor Phil Ewbank Address Fairview, Oklahoma
Driller Phil Ewbank Address Same
Dates: Started August 8, 1963 Completed August 9, 1963
Type of Rig: Cable tool _____ Rotary X Other _____
Size of hole 40" to 48 feet Total Depth 48 feet
Water encountered at: _____ Ft. _____ Ft. _____ Ft.
Water stands at 20 feet feet below the surface.

TESTS

Bailer Test _____ bailers per hour. Size of bailer _____ Gal.
Pump test 485 gallons per minute for 2 hours.
Drawdown: Limit _____ feet after pumping or bailing 2 hrs. at 485 GPM.
Quality of Water: TASTE None ODOR None COLOR Clear
HARD _____ SOFT X TEMPERATURE _____

MATERIAL AND EQUIPMENT

Casing Record 12" to 43'. 12" Gravel Screen to 48 feet
Screen or perforation record 5' feet of Galv. Steel Johnson Screen 12" dia.
Gravel packed Yes Diameter 40 Amt. of Gravel used 14 yards
Pump type Turbine Rated Capacity 500 GPM against 185 feet of head.
Depth to bowls or cylinder 40'6" Ft.
Power: Electric 30 h.p. Gasoline motor _____ h.p.

Bon Davis
Evo. Vice-President
SIGNATURE OF OWNER

August 7, 1963
DATE

(OVER)

OWNER AND LOCATION OF WELLS

Owner Okla Gas & Elec Co

Address Okla City, Okla.

(#1 Well caved in.)

Our Well No. 2 in EB $\frac{1}{4}$ of NW $\frac{1}{4}$ of Section 21 Township 15N Range 10E

Muskogee

County.

Elevation 507 ft.

Distance from nearest town or highway junction:

4 Miles East of Muskogee Okla.

Intended use (underline): Irrigation Municipal Industrial Other _____

GENERAL DRILLING INFORMATION

(File one for each well)

Contractor _____ Address _____

Driller W O Moore Address Muskogee, Okla.

Dates: Started _____ Completed June 21, 1937

Type of Rig: Cable tool Yes Rotary _____ Other _____

Size of Hole 8" to 48"

Example: 8-in. to 55 ft.; 6-in. 55 to 227 ft.)

sands
Water encountered at: 24 ft. _____ ft. _____ ft.

Water stands at 29 feet below surface.

TESTS

Bailer test _____ bailers per hour. Size of bailer _____ Gal.

Pump test 37 gallons per minute for 4 Hours.

Drawdown: No data feet after pumping or bailing _____ hrs. at _____ GPM.

Quality of water: Taste _____ Odor None Color Clear

Hard 280 ppm Soft _____ Temperature 61°F

MATERIAL AND EQUIPMENT

Casing record 8" to 48"

(Example: 8-in. to 55 ft.; 6-in. 55 to 227 ft.)

Screen or perforation record Last 20' before bottom - 80 slots 5/32" x 12"

Parts of the form are inapplicable since the well is not in use before enactment of HB 487 of 22nd Legislature, regular session.

45654

MULTI-PURPOSE COMPLETION REPORT GROUNDWATER WELLS

Please Plot Well Location

☐ Ten Acres

RECEIVED

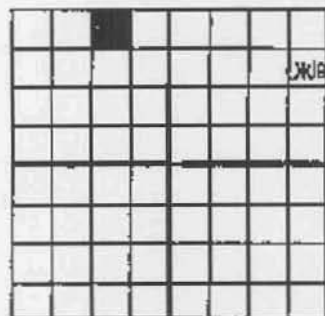
Oklahoma Water Resources Board
3800 North Classen Boulevard
Oklahoma City, OK 73118
Telephone (405) 530-8800

DO NOT WRITE IN THIS SPACE

Permit Number: _____

← One Mile →

SEP 01 1999



Oklahoma Water Resources Board

LEGAL DESCRIPTION

DO NOT WRITE IN THIS SPACE

NW 1/4 NE 1/4 NW 1/4

of Sec. 23 Twp. 15 N Rge. 19 E

OPTIONAL INFORMATION

Latitude 35° 46.16

Longitude 95° 15.92

County Muskogee

Well No. #1

Phone 918-478-4349

Well Owner Greenleaf Nursery Company

Facility Name: _____

Address/City/State/ZIP 1001 Hwy 10 West Fort Gibson, OK 74434

Finding Location From Fort Gibson 2 South, 3/4 West, North 1/2 to.

Invoice 18404

TYPE OF WORK

- ☐ Groundwater Well Test Hole
☐ Fresh Water Obs. Well
☒ Groundwater Well
☐ Plugging

- ☐ De-watering Well
☐ Groundwater Heat Pump Well
☐ Other _____

GROUNDWATER WELL USE

- ☐ Domestic/Stock
☐ Industrial
☐ Public Water Supply
☒ Irrigation

- ☐ Agriculture, non-irrigation
☐ Commercial
☐ Oil & Gas
☐ Other _____

NEW BORING OR WELL CONSTRUCTION DATA

*Use additional sheets of paper if there are not enough spaces for all well construction information.

Date Started 8-19-99 Date Completed 8-19-99

Hole Diameter 24 inches From 0 feet to 38 feet

Hole Diameter _____ inches From _____ feet to _____ feet

CASING RECORD:

Surface Pipe (Casing) Diameter _____ inches Material: _____ From _____ feet to _____ feet

Well Casing Diameter 12 inches Material: PVC From 0 feet to 38 feet

SCREEN OR PERFORATION RECORD:

Type of Screen: ☐ None (Open Hole) ☒ PVC ☐ Steel ☐ Other Describe if Other: _____Type of Slots or Opening: ☐ Perforations ☒ Factory slotted ☐ Other Describe if Other: .080

Screened Interval: From 28 feet to 38 feet

From _____ feet to _____ feet

SEAL:

Type of Surface Seal Portland From 0 feet to 10 feet

TYPE OF COMPLETION:

☒ Above Ground☐ Pitless Adapter

HYDROLOGIC DATA

45654

Depth of water at time of drilling 7 Estimated yield of well 500 First water zone 7
 Drawdown Pumping Test: Depth to water before start of test was — feet. Well was AIR DEVELOPED pumped down at 300 gpm for — hours, which resulted in a drawdown depth to water of — feet.

LITHOLOGIC LOG

MATERIAL (Indicate with a ✓ if a zone is saturated)	ENCOUNTERED		MATERIAL (Indicate with a ✓ if a zone is saturated)	ENCOUNTERED	
	FROM (Feet)	TO (Feet)		FROM (Feet)	TO (Feet)
Clay	0	15			
Fine Sand & Clay	15	20			
Fine to Medium Sand	20	30			
Medium to Coarse Sand w/ Gravel	30	38			
Black Shale	38	39			

WELL LOCATION

Are there any structures within 300 feet of the well? ☐ Yes ☒ No

Distance from the nearest possible source of pollution. (A minimum of 50 feet is required if the well is up-gradient, 75 feet if the well is level, and 100 feet if the well is down gradient.)

Distance — feet from type or source NONE

Location of source from well: ☐ Up-gradient ☐ Level ☐ Down-gradient

Has this well been disinfected after completion of work? ☐ Yes ☒ No

If this well is a replacement well, has old well been abandoned properly? ☐ Yes ☒ No

PLUGGING DATA

Date Plugged — Treated? ☐ Yes ☐ No

Backfilled From — feet to — feet with —

Grouted From — feet to — feet with —

Cement Grouted From — feet to — feet

CERTIFICATION

The work described above was done under my supervision. This report is correct to the best of my knowledge.

Firm Name Eubank, Inc. 901 S. Main Fairview, OK 73737 D/PC No. 0063

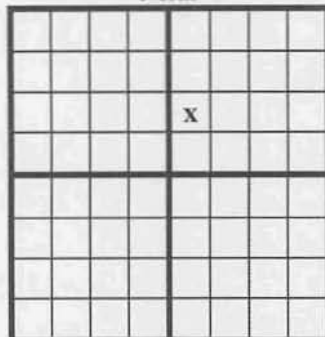
Danny Eubank Signature Date 8/20/99



MULTI-PURPOSE WELL COMPLETION & PLUGGING REPORT

Oklahoma Water Resources Board
3800 North Classen Boulevard
Oklahoma City, OK 73118
Telephone (405) 530-8800

Legal Location
North



«———— One Mile —————»
Each square is 10-acres

WELL ID NUMBER: 68503

Quarters NW-SW-NE

Section 23

Township 15N

Range 19E1

Latitude 35.764813

Longitude -95.259168

Date collected(latitude and longitude), if different from date the well was drilled: 04/29/2002

Method latitude and longitude was collected: Interpolation from PLSS

County Muskogee

Variance Request No. (if applicable) n/a

WELL OWNER - NAME AND ADDRESS

Well Owner _____
Address/City/State _____
Finding Location _____
Well Name _____

Phone _____
Zip _____

Water Rights #: _____

TYPE OF WORK: Groundwater Well

USE OF WELL: Observation Well

NEW WELL CONSTRUCTION DATA

Date Well or Boring Was Completed 11/27/1989
Number of wells or borings represented by this log 1
* (Borings are within the same 10 acre-tract and with the same general depths and lithologies)
Hole Diameter 4.5 inches to a depth of 40 ft.

CASING INFORMATION *Note: If surface casing is used please indicate that on the appropriate well casing information line.

Surface Pipe Material: _____ Surface Pipe Diameter _____ inches Surface Pipe From _____ ft to _____ ft

SCREEN OR PERFORATION INFORMATION

FILTER PACK INFORMATIONFilter Pack Material:

68503

WELL SEAL INFORMATIONType of Surface Seal n/aSurface Seal Interval: From n/a ft to n/a ftType of Annular Seal n/aAnnular Seal Interval: From n/a ft to n/a ftFilter Pack Seal Material n/aFilter Pack Seal Interval: From n/a ft to n/a ft**TYPE OF COMPLETION:** **HYDROLOGIC INFORMATION**Depth to water at time of drilling ftEstimated yield of well gpmFirst water zone ft**LITHOLOGY DESCRIPTION**

MATERIAL	ENCOUNTERED		SATURATED
	FROM (ft.)	TO (ft.)	
TOPSOIL	0	2	N
CLAY	2	7	N
FINE SAND	7	25	N
MEDIUM SAND	25	30	N
MEDIUM COARSE	30	38	N
BLACK-GRAY SHALE	38	40	N

WELL LOCATION TO POTENTIAL SOURCES OF POLLUTIONHas this well been disinfected after completion of work? n/aAre there any potential sources of pollution or wastewater lagoons within 300 ft. of the well? n/aDistance of Well is n/a from possible source. Type of possible source: n/a**PLUGGING INFORMATION**Date Well or Boring Was Plugged n/aTotal Depth of well being plugged ft.Was the well contaminated or was it plugged as though it was contaminated? n/aIf the well or boring was plugged as if it was contaminated, was the casing removed or perforated? n/aWas the grout tremied? n/aBackfilled with n/aBackfilled from ft. to ft.Grouted with n/aGrouted from ft. to ft.Grouted with CementGrouted from ft. to ft.Firm Name EWBANK INC.D/PC No. DPC-9Operator Name OP No. OP-9Date n/aComments: n/a

STATE OF OKLAHOMA
MULTI-PURPOSE WATER WELL REPORT
OKLAHOMA WATER RESOURCES BOARD
1000 N.E. 10th St., P.O. Box 53585
Oklahoma City, Oklahoma 73152

1194-17-2

68504

1. WELL OWNER Greenleaf Nursery Co PHONE 15 (Circle One)
2. LEGAL DESCRIPTION NE 1/4 of SW 1/4 of NE 1/4 of sec. 23; TWP. 36 N. R. 19 E. COUNTY Muskogee

FINDING LOCATION _____
Blocks or distance(s) from given point(s).

3. TYPE OF WORK
☐ New Well ☒ Plugging
☐ Reconditioning Work
☒ Test/Monitoring
☐ G.W. Heat Pump
☐ Other _____

4. USE
☐ Domestic
☐ Stock
☒ Test/Monitoring
☐ C.W. Heat Pump
☐ Other _____

NON-DOMESTIC
☒ Irrigation
☐ Municipal
☒ Industrial
☐ Commercial
☐ Other _____

5. DRILLING METHOD
☒ Fluid Rotary ☐ Rev. Rotary
☐ Cable ☐ Other _____
☐ Air Rotary
☐ H.S. Auger

6. LITHOLOGIC LOG

Material	From	To	Stratified
Topsoil	0	2	
Clay	2	7	
Fine Sand	7	25	
Medium Sand	25	30	
Medium to Coarse Sand & Small gravel	30	38	
Black Shale	38	40	

7. LOCATION PERMIT

If this well is Non-Domestic, has the location been permitted?
☐ Yes ☒ No Permit No. _____

8. NEW WELL CONSTRUCTION DATA

DATES: Started 11-27-89 Completed 11-27-89
Contractor EWBANK INC
Driller Clyde McKinley
Diameter Hole 2 1/2 in. Total Depth 40 ft.

CASING RECORD
Diameter From To
Surface Pipe _____ in. _____ ft. _____ ft.
Well Casing _____ in. _____ ft. _____ ft.
Cement Grout Surface Seal? ☐ Yes ☒ No
Type of Surface Seal: _____ Depth of Seal: _____ ft.
GRAVEL PACK:
Gravel Packed From _____ ft. to _____ ft.
Amount Used: _____

PERFORATION RECORD
Type/Size From To
_____ ft. To _____ ft.
_____ ft. To _____ ft.
_____ ft. To _____ ft.

9. WELL TEST DATA

Static Water Level _____ ft.
Below Land Surface 6 ft.
Approximate Yield _____ gpm.
If Artesian: Flows _____ gpm.

10. PUMP INFORMATION

Pump Type _____
Power Source _____
Rated Capacity _____ gpm.
Depth of Bowls or Cylinders _____ ft.

11. PLUGGING DATA

Date Plugged 11-28-89
Backfilled With CUTTING Material To 10 ft.
Grouted or Cemented From 0 ft. To 10 ft.

12. RECONDITIONING WORK

Date Completed _____
Replaced Casing From _____ ft. To _____ ft.

RECEIVED
DEC 13 1989

Oklahoma Water Resources Board

Test Hole
#3

White—Water Resources Board
Canary—Driller's Copy
Pink—Customer's Copy

STATE OF OKLAHOMA
MULTI-PURPOSE WATER WELL REPORT
OKLAHOMA WATER RESOURCES BOARD
1000 N.E. 10th St., P.O. Box 53585
Oklahoma City, Oklahoma 73152

68505

1. WELL OWNER GREENKAF NURSERY Co PHONE _____
(Circle One)
2. LEGAL DESCRIPTION NE 1/4 of NW 1/4 of NE 1/4 of sec. 23, TWP. 15 N, RGE 19, WIM COUNTY Muskogee

FINDING LOCATION _____
Blocks or distance(s) from given point(s).

3. TYPE OF WORK		4. USE		5. DRILLING METHOD	
<input type="checkbox"/> New Well	<input checked="" type="checkbox"/> Plugging	<input type="checkbox"/> Domestic	<input checked="" type="checkbox"/> Non-Domestic	<input checked="" type="checkbox"/> Fluid Rotary	<input type="checkbox"/> Rev. Rotary
<input type="checkbox"/> Reconditioning Work		<input type="checkbox"/> Stock	<input type="checkbox"/> Municipal	<input type="checkbox"/> Cable	<input type="checkbox"/> Other
<input checked="" type="checkbox"/> Test/Monitoring		<input checked="" type="checkbox"/> Test/Monitoring	<input type="checkbox"/> Industrial	<input type="checkbox"/> Air Rotary	
<input type="checkbox"/> G.W. Heat Pump		<input type="checkbox"/> G.W. Heat Pump	<input type="checkbox"/> Commercial	<input type="checkbox"/> H.S. Auger	
<input type="checkbox"/> Other		<input type="checkbox"/> Other	<input type="checkbox"/> Other		

6. LITHOLOGIC LOG				7. LOCATION PERMIT	
Material	From	To	Saturated	If this well is Non-Domestic, has the location been permitted?	
Topsoil	0	2		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Permit No. _____	

8. NEW WELL CONSTRUCTION DATA	
DATES: Started <u>11-27-89</u>	Completed <u>11-27-89</u>
Contractor <u>EWBANK INC</u>	
Driller <u>Charles McKinley</u>	
Diameter Hole <u>4 1/2</u> in.	Total Depth <u>40</u> ft.

CASING RECORD			
Diameter	From	To	
Surface Pipe	_____ in.	_____ ft.	_____ ft.
Well Casing	_____ in.	_____ ft.	_____ ft.
Cement Grout Surface Seal?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Type of Surface Seal:	_____	Depth of Seal:	_____ ft.
GRAVEL PACK:			
Gravel Packed From	_____ ft.	to	_____ ft.
Amount Used:	_____		

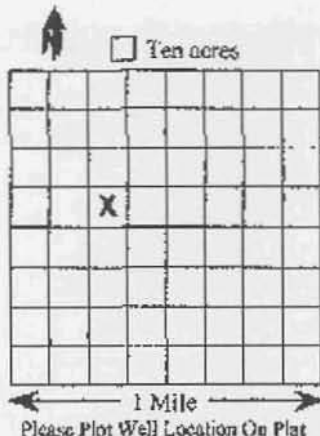
PERFORATION RECORD			
Type/Size	From	ft. To	_____ ft.
	From	ft. To	_____ ft.
	From	ft. To	_____ ft.

9. WELL TEST DATA		10. PUMP INFORMATION	
Static Water Level	_____ ft.	Pump Type	_____
Below Land Surface <u>7</u> ft.		Power Source	_____
Approximate Yield _____ gpm.		Rated Capacity _____ gpm.	
If Artesian: Flows _____ gpm.		Depth of Bowls or Cylinder _____ ft.	

11. PLUGGING DATA	
Date Plugged <u>11-28-89</u>	
Backfilled With <u>CUTTING</u>	Material To <u>10</u> ft.
Grouted or Cemented From <u>0</u> ft.	To <u>10</u> ft.

12. RECONDITIONING WORK	
-------------------------	--

TESTHOLE #5
RECEIVED
DEC 15 1989



MULTI-PURPOSE COMPLETION REPORT GROUNDWATER WELLS

Oklahoma Water Resources Board
3800 North Classen Boulevard
Oklahoma City, OK 73118
Telephone (405) 530-8800

FOR OFFICIAL USE ONLY
ID Number 73090

FOR OFFICIAL USE ONLY
SW $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$

LEGAL DESCRIPTION

of Section 23 Township 15 Range 19
☒ N ☐ S ☐ WIM ☒ EIM ☐ HCM

OPTIONAL INFORMATION

Latitude N 35 45.77 Longitude W 95 15.89

County Muskogee Well No. 11001 Water Rights Permit Number: _____
Well Owner Greenleaf Nursery Co. Telephone: 918-478-4349
Address/City/State/Zip 1001 Hwy 10 West - Ft. Gibson, OK 74434
Finding Location From Ft. Gibson, 2 S, 3/4 W, S Into
1550' FWL, 2430' FNL.

TYPE OF WORK

- ☒ Groundwater Well
☐ Groundwater Well Test Hole
☐ Plugging

GROUNDWATER WELL USE

- ☐ Domestic
☐ Stock
☐ Public Water Supply
☐ Agriculture, Non-irrigation

- ☒ Irrigation
☐ Commercial
☐ Oil & Gas/Mining
☐ Industrial

- ☐ Fresh Water Observation
☐ De-watering
☐ Groundwater Heat Pump
☐ Cathodic Protection/Anode

NEW BORING OR WELL CONSTRUCTION DATA

* Use additional sheets of paper if there are not enough spaces for all well construction information.

Date Started 10-1-01 Date Completed 10-1-01
Hole Diameter 26 inches From 0 feet to 40 feet
Hole Diameter _____ inches From _____ feet to _____ feet

CASING RECORD:

Surface Pipe (Casing) Diameter _____ inches Material: _____ From _____ feet to _____ feet
Well Casing Diameter 12 inches Material: PVC From 0 feet to 40 feet

SCREEN OR PERFORATION RECORD:

Type of Screen: ☐ None (Open Hole) ☒ PVC ☐ Steel ☐ Other Describe if Other: _____
Type of Slots or Opening: ☐ Perforations ☒ Factory slotted ☐ Other Describe if Other: .050
Screened Interval: From 25 feet to 40 feet
From _____ feet to _____ feet

SEAL:

Type of Surface Seal Portland From 0 feet to 11 feet

TYPE OF COMPLETION: ☒ Above Ground ☐ Pitless Adapter

HYDROLOGIC DATA

LITHOLOGIC LOG

WELL LOCATION

Distance from the nearest possible source of pollution. (A minimum of 50 feet is required if the well is up-gradient, 75 feet if the well is level, and 100 feet if the well is down gradient)

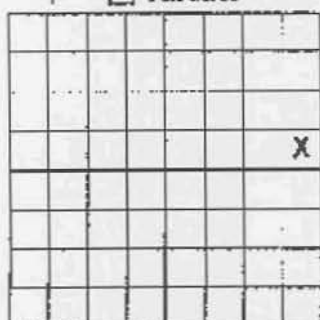
Is this well a replacement well? ☐ Yes ☒ No If Yes, was abandoned well properly plugged? ☐ Was plugged ☐ Was not plugged

PLUGGING DATA

Cement Grouted From _____ feet to _____ feet

CERTIFICATION

Signature _____

☐ Ten acres

 Please Plot Well Location On Plat

MULTI-PURPOSE COMPLETION REPORT GROUNDWATER WELLS

Oklahoma Water Resources Board
 3800 North Classen Boulevard
 Oklahoma City, OK 73118
 Telephone (405) 530-8800

FOR OFFICIAL USE ONLY

ID Number 73092

LEGAL DESCRIPTION

FOR OFFICIAL USE ONLY

SE $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$

of Section 23 Township 15 ☒ N ☐ S Range 19

☐ WIM
☒ EIM
☐ ECM

OPTIONAL INFORMATION

Latitude N 35 45.73 Longitude W 95 15.14

County Muskogee Well No. 2502 Water Rights Permit Number: _____
 Well Owner Greenleaf Nursery Co. Telephone: 918-478-4349
 Address/City/State/Zip 1001 Hwy 10 West - Ft. Gibson, OK 74434
 Finding Location From Ft. Gibson, 2 S, 3/4 W, S Into

TYPE OF WORK

- ☒ Groundwater Well
☐ Groundwater Well Test Hole
☐ Plugging

GROUNDWATER WELL USE

- ☐ Domestic
☐ Stock
☐ Public Water Supply
☐ Agriculture, Non-irrigation

- ☒ Irrigation
☐ Commercial
☐ Oil & Gas/Mining
☐ Industrial

- ☐ Fresh Water Observation
☐ De-watering
☐ Groundwater Heat Pump
☐ Cathodic Protection/Anode

NEW BORING OR WELL CONSTRUCTION DATA

* Use additional sheets of paper if there are not enough spaces for all well construction information.

Date Started 5-21-02 Date Completed 5-21-02

Hole Diameter 16 inches From 0 feet to 39 feet

Hole Diameter _____ inches From _____ feet to _____ feet

CASING RECORD:

Surface Pipe (Casing) Diameter _____ inches Material: _____ From _____ feet to _____ feet

Well Casing Diameter 10 inches Material: PVC From 0 feet to 32.5 feet

SCREEN OR PERFORATION RECORD:

Type of Screen: ☐ None (Open Hole) ☒ PVC ☐ Steel ☐ Other Describe if Other: _____
 Type of Slots or Opening: ☐ Perforations ☒ Factory slotted ☐ Other Describe if Other: .050
 Screened Interval: From 22.5 feet to 32.5 feet
 From _____ feet to _____ feet

SEAL:

Type of Surface Seal Portland From 0 feet to 11 feet

TYPE OF COMPLETION: ☒ Above Ground ☐ Pitless Adapter

HYDROLOGIC DATA

Depth of water at time of drilling	2	Estimated yield of well	284	First water zone	2
------------------------------------	---	-------------------------	-----	------------------	---

Drawdown Pumping Test: Depth to water before start of test was 2 feet. Well was pumped/soaked at 284 gpm for 1 hours, which resulted in a drawdown depth to water of 19 feet.

LITHOLOGIC LOG

MATERIAL (indicate with a ✓ if a zone is saturated)	ENCOUNTERED		MATERIAL (indicate with a ✓ if a zone is saturated)	ENCOUNTERED	
	FROM (Feet)	TO (Feet)		FROM (Feet)	TO (Feet)
Clay	0	5			
Fine Sand & Clay	5	10			
Fine Clean Sand	10	20			
Medium Sand to Coarse Sand	20	32			
Black Shale	32	39			

WELL LOCATION

Are there any structures or wastewater lagoons within 300 feet of the well? ☐ Yes ☒ No

Distance from the nearest possible source of pollution. (A minimum of 50 feet is required if the well is up-gradient, 75 feet if the well is level, and 100 feet if the well is down gradient)

Distance _____ feet from type or source _____

Location of source from well: ☐ Up-gradient ☐ Level ☐ Down-gradient

Has this well been disinfected after completion of work? ☐ Yes ☒ No

Is this well a replacement well? ☐ Yes ☒ No If Yes, was abandoned well properly plugged? ☐ Was plugged ☐ Was not plugged

PLUGGING DATA

Date Plugged _____ Tremied? ☐ Yes ☐ No

Backfilled	From	feet to	feet with

Grouted	From	feet to	feet with

Cement Grouted From _____ feet to _____ feet

CERTIFICATION

The work described above was done under my supervision. This report is correct to the best of my knowledge.

Firm Name **Ewbank, Inc. -- P.O. Box 309 -- Fairview, OK 73737** D/PC No. **0063**

Signature Pammy Eirland Date 7-11-02



☐ Ten acres

			X		

1 Mile

Please Plot Well Location On Plat

MULTI-PURPOSE COMPLETION REPORT GROUNDWATER WELLS

Oklahoma Water Resources Board
 3800 North Classen Boulevard
 Oklahoma City, OK 73118
 Telephone (405) 530-8800

FOR OFFICIAL USE ONLY

ID Number

73093

LEGAL DESCRIPTION

FOR OFFICIAL USE ONLY

SE 1/4 SW 1/4 NE 1/4

of Section 23

Township 15

☒ N
☐ S

Range 19

☐ WIM
☒ EIM
☐ ECM

OPTIONAL INFORMATION

Latitude N 35 46.74

Longitude W 95 15.47

County Muskogee

Well No. 1502

Water Rights Permit Number: _____

Well Owner Greenleaf Nursery Co.

Telephone: 918-478-4349

Address/City/State/Zip 1001 Hwy 10 West -- Ft. Gibson, OK 74434

Finding Location From Ft. Gibson, 2 S, 3/4 W, 8 Into

TYPE OF WORK

- ☒ Groundwater Well
☐ Groundwater Well Test Hole
☐ Plugging

GROUNDWATER WELL USE

- ☐ Domestic
☐ Stock
☐ Public Water Supply
☐ Agriculture, Non-irrigation
☒ Irrigation
☐ Commercial
☐ Oil & Gas/Mining
☐ Industrial

- ☐ Fresh Water Observation
☐ De-watering
☐ Groundwater Heat Pump
☐ Cathodic Protection/Anode

NEW BORING OR WELL CONSTRUCTION DATA

* Use additional sheets of paper if there are not enough spaces for all well construction information.

Date Started 5-21-02

Date Completed 5-21-02

Hole Diameter 14 inches From 0 feet to 37 feet

Hole Diameter _____ inches From _____ feet to _____ feet

CASING RECORD:

Surface Pipe (Casing) Diameter _____ inches Material: _____ From _____ feet to _____ feet

Well Casing Diameter 8 inches Material: PVC From 0 feet to 37 feet

SCREEN OR PERFORATION RECORD:

Type of Screen: ☐ None (Open Hole) ☒ PVC ☐ Steel ☐ Other Describe if Other: _____
 Type of Slots or Opening: ☐ Perforations ☒ Factory slotted ☐ Other Describe if Other: .050
 Screened Interval: From 27 feet to 37 feet
 From _____ feet to _____ feet

SEAL:

Type of Surface Seal Portland From 0 feet to 11 feet

TYPE OF COMPLETION:

☒ Above Ground ☐ Pitless Adapter

73093

HYDROLOGIC DATA

Depth of water at time of drilling 7 Estimated yield of well 284 First water zone 7Drawdown Pumping Test: Depth to water before start of test was 7 feet. Well was pumped/bailed at 284 gpm for 1 hours, which resulted in a drawdown depth to water of 26.6 feet.

LITHOLOGIC LOG

MATERIAL (indicate with a ✓ if a zone is saturated)	ENCOUNTERED		MATERIAL (indicate with a ✓ if a zone is saturated)	ENCOUNTERED	
	FROM (Feet)	TO (Feet)		FROM (Feet)	TO (Feet)
Clay	0	5			
Fine Sand & Clay	5	10			
Fine Clean Sand	10	25			
Medium Sand to Coarse Sand	25	36			
Black Shale	36	45			

WELL LOCATION

Are there any structures or wastewater lagoons within 300 feet of the well? ☒ Yes ☐ No

Distance from the nearest possible source of pollution. (A minimum of 50 feet is required if the well is up-gradient, 75 feet if the well is level, and 100 feet if the well is down gradient)

Distance 180 feet from type or source BarnLocation of source from well: ☒ Up-gradient ☐ Level ☐ Down-gradientHas this well been disinfected after completion of work? ☐ Yes ☒ NoIs this well a replacement well? ☐ Yes ☒ No If Yes, was abandoned well properly plugged? ☐ Was plugged ☐ Was not plugged

PLUGGING DATA

Date Plugged _____ Tremied? ☐ Yes ☐ No

Backfilled From _____ feet to _____ feet with _____

Grouted From _____ feet to _____ feet with _____

Cement Grouted From _____ feet to _____ feet

CERTIFICATION

The work described above was done under my supervision. This report is correct to the best of my knowledge.

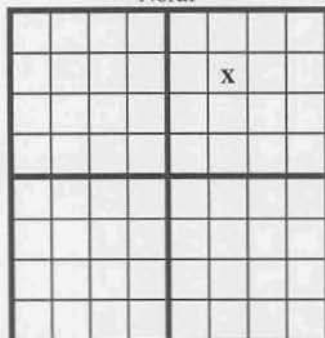
Firm Name Ewbank, Inc. - P.O. Box 309 - Fairview, OK 73737 D/PC No. 0063Signature Danny Ewbank Date 7-11-02



MULTI-PURPOSE WELL COMPLETION & PLUGGING REPORT

Oklahoma Water Resources Board
3800 North Classen Boulevard
Oklahoma City, OK 73118
Telephone (405) 530-8800

Legal Location
North



WELL ID NUMBER: 87236

Quarters SE-NW-NE

Section 23

Township 15N

Range 19E1

Latitude 35.7662

Longitude -95.2577

Date collected(latitude and longitude), if different from date the well was drilled: 06/01/2004

Method latitude and longitude was collected: GPS - uncorrected data

County Muskogee

Variance Request No. (if applicable) n/a

WELL OWNER - NAME AND ADDRESS

Well Owner Greenleaf Nursery Company

Phone (918) 478-4349

Address/City/State 1001 Hwy 1D West Fort Gibson OK

Zip 74434

Finding Location From Ft. Gibson 25, 3/4 W., N into.

Well Name 1-2004

Water Rights #:

TYPE OF WORK: Groundwater Well

USE OF WELL: Irrigation

NEW WELL CONSTRUCTION DATA

Date Well or Boring Was Completed 05/27/2004

Number of wells or borings represented by this log 1

* (Borings are within the same 10 acre-tract and with the same general depths and lithologies)

Hole Diameter 18 inches to a depth of 37 ft.

CASING INFORMATION *Note: If surface casing is used please indicate that on the appropriate well casing information line.

Surface Pipe Material: Surface Pipe Diameter inches Surface Pipe From ft to ft

1) Well Casing Material PVC Casing Diameter 10 inches Casing From 0 ft to 37 ft

SCREEN OR PERFORATION INFORMATION

Type of Screen: PVC Type of Slots or Openings: Factory Slotted - 50 slot (0.050 inch) From 27 ft to 37 ft.

FILTER PACK INFORMATIONFilter Pack Material: Gravel 1/8 inch (pea gravel)Filter Pack Interval: From 10 ft to 37

8236

87236

WELL SEAL INFORMATIONType of Surface Seal Cement GroutType of Annular Seal n/aFilter Pack Seal Material n/aSurface Seal Interval: From 0 ft to 10 ftAnnular Seal Interval: From n/a ft to n/a ftFilter Pack Seal Interval: From n/a ft to n/a ft**TYPE OF COMPLETION:** Above Ground**HYDROLOGIC INFORMATION**Depth to water at time of drilling 8 ftEstimated yield of well 455 gpmFirst water zone 8 ft**Drawdown Pumping Test**

Date	Time	Start Depth	Rate(gpm)	Duration	Drawdown(ft)
05/27/2004	12:00 AM	8	455	1.5	30

LITHOLOGY DESCRIPTION

MATERIAL	ENCOUNTERED		SATURATED
	FROM (ft.)	TO (ft.)	
Clay	0	5	N
Fine Sand	5	27	Y
Fine to Med. Sand	27	30	Y
Med with Coarse Sand	30	36	Y
Black Shale	36	37	N

WELL LOCATION TO POTENTIAL SOURCES OF POLLUTIONHas this well been disinfected after completion of work? NoAre there any potential sources of pollution or wastewater lagoons within 300 ft. of the well? n/aDistance of Well is n/a from possible source. Type of possible source: n/a**PLUGGING INFORMATION**Date Well or Boring Was Plugged n/aTotal Depth of well being plugged ft.Was the well contaminated or was it plugged as though it was contaminated? n/aIf the well or boring was plugged as if it was contaminated, was the casing removed or perforated? n/aWas the grout tremied? n/aBackfilled with n/aBackfilled from ft. to ft.Grouted with n/aGrouted from ft. to ft.Grouted with CementGrouted from ft. to ft.Firm Name Ewbank, Inc.D/PC No. DPC-0063Operator Name MCKINLEY, CLYDE L.OP No. OP-0090Date 05/28/2004

Comments: Top of casing is 1.5 feet AGL.



MULTI-PURPOSE WELL COMPLETION & PLUGGING REPORT

Oklahoma Water Resources Board
3800 North Classen Boulevard
Oklahoma City, OK 73118
Telephone (405) 530-8800

Legal Location
North

«———— One Mile —————»
Each square is 10-acres

WELL ID NUMBER: 87602

Quarters NW-NW-SW

Section 22

Township 15N

Range 19E

Latitude 35.7607

Longitude -95.2862

Date collected(latitude and longitude), if different from date the well was drilled: 06/10/2004

Method latitude and longitude was collected: GPS - uncorrected data

County Muskogee

Variance Request No. (if applicable) n/a

WELL OWNER - NAME AND ADDRESS

Well Owner OG&E

Phone (405) 553-4843

Address/City/State PO Box 2523 Oklahoma City OK

Zip 73120

Finding Location 5501 Three Forks Road, Ft. Gibson, OK 74434

Well Name Well #1

Water Rights #:

TYPE OF WORK: Groundwater Well

USE OF WELL: Commercial

NEW WELL CONSTRUCTION DATA

Date Well or Boring Was Completed 06/03/2004

Number of wells or borings represented by this log 1

* (Borings are within the same 10 acre-tract and with the same general depths and lithologies)

Hole Diameter 18 inches to a depth of 57 ft.

CASING INFORMATION *Note: If surface casing is used please indicate that on the appropriate well casing information line.

Surface Pipe Material: Surface Pipe Diameter inches Surface Pipe From ft to ft

1) Well Casing Material PVC Casing Diameter 10 inches Casing From 0 ft to 56 ft

SCREEN OR PERFORATION INFORMATION

Type of Screen: Stainless Steel Type of Slots or Openings: Factory Slotted - 60 slot (0.060 inch) From 41 ft to 56 ft.

FILTER PACK INFORMATIONFilter Pack Material: Gravel 1/8 inch (pea gravel)Filter Pack Interval: From 11 ft to 56

87602

WELL SEAL INFORMATIONType of Surface Seal Cement GroutType of Annular Seal n/aFilter Pack Seal Material n/aSurface Seal Interval: From 0 ft to 10 ftAnnular Seal Interval: From n/a ft to n/a ftFilter Pack Seal Interval: From n/a ft to n/a ft**TYPE OF COMPLETION:** Above Ground**HYDROLOGIC INFORMATION**Depth to water at time of drilling 29 ftEstimated yield of well 300 gpmFirst water zone 29 ft**Drawdown Pumping Test**

Date	Time	Start Depth	Rate(gpm)	Duration	Drawdown(ft)
06/03/2004	12:00 AM	29	30	2	46

LITHOLOGY DESCRIPTION

MATERIAL	ENCOUNTERED		SATURATED
	FROM (ft.)	TO (ft.)	
Clay	0	10	N
Clay & Rock	10	12	N
Clay	12	25	N
Fine Sand & Clay	25	30	Y
Fine to Med Sand	30	40	Y
Med. to Coarse Sand	40	56	Y
Black Shale	56	57	N

WELL LOCATION TO POTENTIAL SOURCES OF POLLUTIONHas this well been disinfected after completion of work? NoAre there any potential sources of pollution or wastewater lagoons within 300 ft. of the well? YDistance of Well is 51 - 75 feet from possible source. Type of possible source: Other**PLUGGING INFORMATION**Date Well or Boring Was Plugged n/aTotal Depth of well being plugged ft.Was the well contaminated or was it plugged as though it was contaminated? n/aIf the well or boring was plugged as if it was contaminated, was the casing removed or perforated? n/aWas the grout tremied? n/aBackfilled with n/aBackfilled from ft. to ft.Grouted with n/aGrouted from ft. to ft.Grouted with CementGrouted from ft. to ft.Firm Name Ewbank, Inc.D/PC No. DPC-0063Operator Name MCKINLEY, CLYDE L.OP No. OP-0090Date 06/10/2004Comments: n/a

Download Results to CSV

(ALT-D)

New Search

(ALT-N)

Graph Water Levels

(ALT-G)

Save Wells for Graphing





(ALT-W)

[View Drought Monitoring Map and Water Level Graphs](#)

[Help & Search Results Key](#)

Search Results for 4-8, 14N, 19E1

Displaying Results 1 through 4 of 4.

Well ID	County	Owner Name	Qtrs	SEC-TWP-RGE	Date Const	Well Type	Use	TD (ft)	Static WL	First Zone	Meas. WL	Est. Yld	WL Graph
23575	Muskogee	Roy Thornton	SWSWSE	04-14N-19E1	07/10/85	Groundwater Well	Domestic	123	n/a	15	n/a	4	
23576	Muskogee	R. B. Shirley	NENWNE	04-14N-19E1	09/21/84	Groundwater Well	Domestic	130	n/a	15	n/a	1	
75091	Muskogee	Syd,inc.	SWSWNE	05-14N-19E1	12/16/02	Groundwater Well	Domestic	200	n/a	n/a	n/a	n/a	
86618	Muskogee	Jeana Mackey	NENWNW	05-14N-19E1	11/26/03	Groundwater Well	Domestic	500	n/a	n/a	n/a	1	

Help & Search Results Key

This search does not necessarily contain information about all of the water wells within the area of interest. The multi-purpose well completion report database consists of information submitted to the Board for all well data reported by licensed firms since 1982 and monitoring well data reported since 1988. There could be other wells in the area, which are not included in our database. Wells drilled prior to the licensing requirements for well drillers would not necessarily have had a well log submitted to the OWRB. A field survey may need to be conducted to verify the presence or absence of other water wells.

The Oklahoma Water Resources Board does not guarantee the accuracy of the data shown in the well completion records. Data entered into the database are as reported by the well drillers and much of the data have not been field verified for accuracy. If any errors in the records are discovered, please bring them to our attention so that corrections to the database may be made.

[contact OWRB](#) | [disclaimer](#)

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MULTI-PURPOSE WATER WELL REPORT

STATE OF OKLAHOMA
WATER RESOURCES BOARD
1000 N.E. 10th St., P.O. Box 53585
Oklahoma City, Oklahoma 73152

Application No. _____
Aquifer _____
Steam System Code _____
Use Code _____
County _____
(Official Use Only)

1. OWNER Roy Thornton ADDRESS Box 22 Bacone College
Muskogee, OK 74403 PHONE (918) 687-7963

2. LEGAL DESCRIPTION OF WELL
SW 1/4 of SW 1/4 of SE 1/4 of sec. 4; TWP. 14 S; RGE. 19 ELM (Circle One)
WIM
ECM: COUNTY Muskogee

3. TYPE OF WORK
☒ New Well ☐ Plugging
☐ Reconditioning Work
☐ Test/Monitoring

4. USE
☒ Domestic
☐ Stock
☐ Test/Monitoring

NON-DOMESTIC
☐ Irrigation
☐ Municipal
☐ Industrial
☐ Commercial
☐ Other

5. DRILLING METHOD
☒ Rotary ☐ Rev. Rotary
☐ Cable ☐ Other
☐ Air

6. LOG			
Material	From	To	Saturated
O - B	0	18'	
Shale	18'	26'	
Lime	26'	59'	
Lime & Shale	59'	123'	
Hit Water at 59' 1 1/2 GPM			
Hit Water at 105' 1 1/2 GPM			

7. LOCATION PERMIT
If this well is Non-Domestic, has this location been permitted?
☐ Yes ☐ No Permit No. Not Required

8. NEW WELL CONSTRUCTION DATA
DATES: Started 7-10-85 Completed 7-10-85
Contractor Webster's Drilling Company
Driller Jim Webster
Diameter Hole 6 in. Total Depth 123 ft.

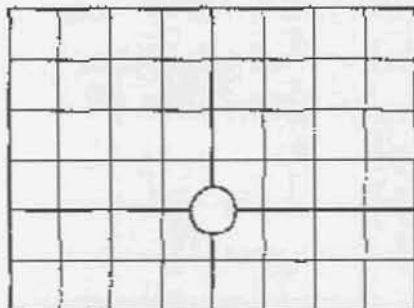
CASING RECORD
Diameter From To
Inside 6 5/8 in. 0 ft. 20 ft.
Outside 6 5/8 in. 0 ft. 20 ft.
Cement Grout Surface Seal ☒ Yes ☐ No
Type of Surface Seal: Cement Depth of Seal: 20 ft.
GRAVEL PACKED:
Gravel Packed From NONE ft. to 0 ft.
Amount Used: _____

PERFORATION RECORD
Type/Size
None From _____ ft. To _____ ft.
From _____ ft. To _____ ft.
From _____ ft. To _____ ft.

WELL TEST DATA
Static Water Level Below Land Surface 15 ft.
If Artesian: Flows _____ gpm.
Approximate Yield 4 gpm.

11. PLAT

10
AC.



10. PLUGGING DATA
Date Plugged N/A
Backfilled With _____ Material To _____ ft.
Grouted or Cemented From _____ ft. To _____ ft.
Plot Location in Item 11. Show Distances From 2 Section Lines.

13. RECONDITIONING WORK
Date Completed N/A

RECEIVED
JUL 22 1985
Oklahoma Water Resources Board

TEST PUMP REPORT ATTACHED

23575

INDICATE ON THE MAP BELOW THE LOCATION OF THE WATER SOURCE (AND THE LANDS TO BE IRRIGATED)

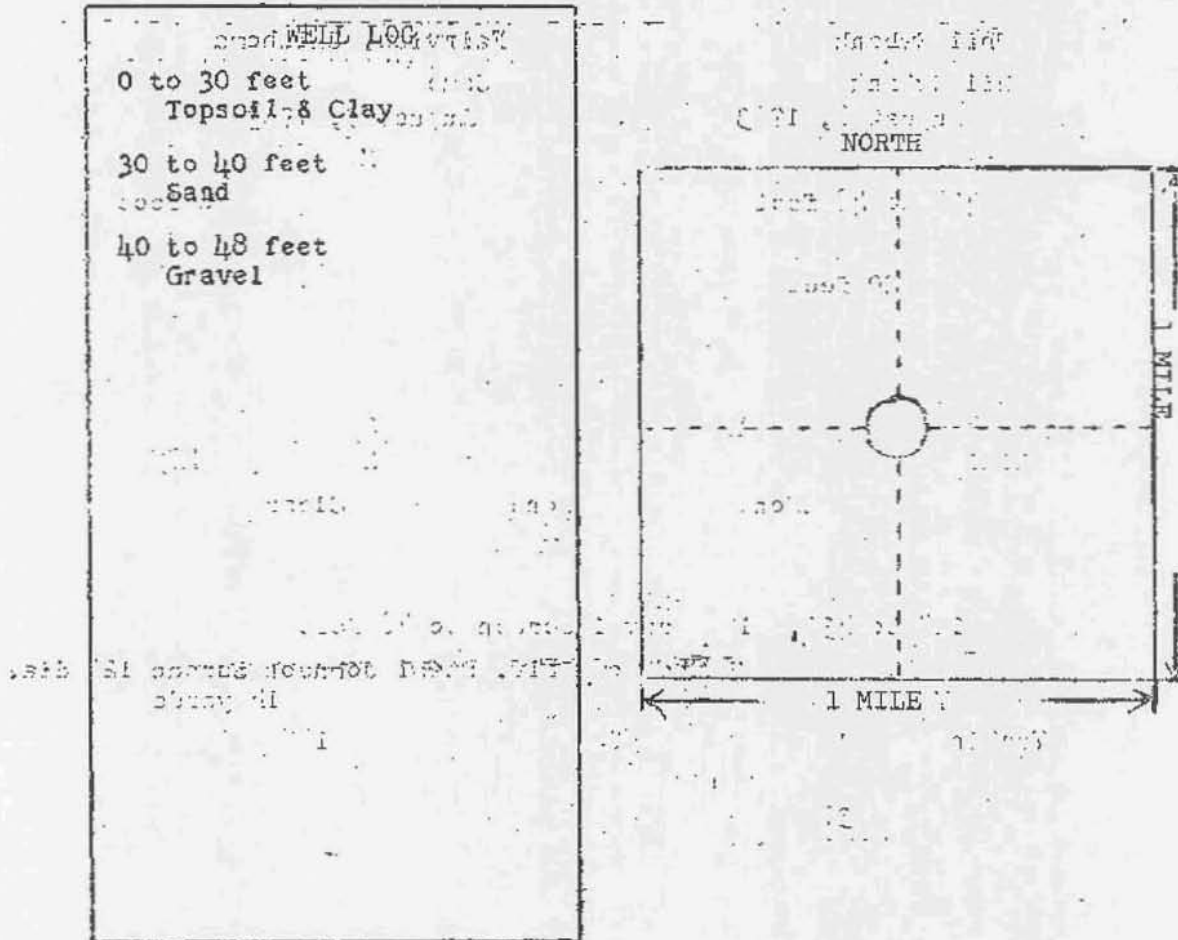
SECTION 22 TOWNSHIP 15N RANGE 19E

361

SS

3300000

3300000 3300000 3300000 3300000 3300000



TO BE FILED IN TRIPPLICATE AND MAILED TO P.O. BOX 3125, STATE CAPITOL, OKLAHOMA CITY, OKLAHOMA, WITHIN SIXTY (60) DAYS AFTER COMPLETION OF THE WELLS.

MULTI-PURPOSE WATER WELL REPORT

STATE OF OKLAHOMA
WATER RESOURCES BOARD
1000 N.E. 10th St., P.O. Box 53585
Oklahoma City, Oklahoma 73152

Application No. _____
Aquifer _____
Stream System Code _____
Use Code _____
County _____
(Official Use Only)

#23576

1. OWNER R. B. Shirley ADDRESS R. R. 1
Muskogee, Okla. PHONE 989-5531
2. LEGAL DESCRIPTION OF WELL
NE 1/4 of NW 1/4 of NE 1/4 of sec. 4 TWP. 14 N. RGE. 19 E. COUNTY Muskogee

3. TYPE OF WORK
☒ New Well ☐ Reconditioning Work ☐ Test/Monitoring
☐ Plugging

4. USE
☒ Domestic ☐ Stock ☐ Test/Monitoring

NON-DOMESTIC
☐ Irrigation ☐ Municipal ☐ Industrial ☐ Commercial ☐ Other

5. DRILLING METHOD
☒ Rotary ☐ Cable ☐ Air ☐ Rev. Rotary ☐ Other

6. LOG			
Material	From	To	San-
Clay	0.0	6.5	
Brown Shale	6.5	11.0	
Gray Shale	11.0	51.0	
Hd. S.S. & Shale	51.0	94.0	
Soft Gray Shale	94.0	130.0	

7. LOCATION PERMIT
If this well is Non-Domestic, has this location been permitted?
☐ Yes ☐ No Permit No. _____

8. NEW WELL CONSTRUCTION DATA
DATES: Started 9-21-84 Completed 9-21-84
Contractor GARIANO DRILLING
Driller BILL GARIANO
Diameter Hole 6 in. Total Depth 130 ft.

CASING RECORD

Diameter From To
Inside 6 in. 0.0 ft. 20 ft.
Outside _____ in. _____ ft. _____ ft.
Cement Grout Surface Seal ☒ Yes ☐ No
Type of Surface Seal: Cement Depth of Seal: 20 ft.
GRAVEL PACKED:
Gravel Packed From _____ ft. to _____ ft.
Amount Used: _____

PERFORATION RECORD

Type/Size
From _____ ft. To _____ ft.
From _____ ft. To _____ ft.
From _____ ft. To _____ ft.

9. WELL TEST DATA

Static Water Level Below Land Surface 15.0 ft.
If Artesian: Flows _____ gpm.
Approximate Yield 60 gpm.

10. PLUGGING DATA

Date Plugged: _____
Backfilled With _____ Material To _____ ft.
Cemented or Cemented From _____ ft. To _____ ft.
Plot Location in Item 11. Show Distances From 2 Section Lines.

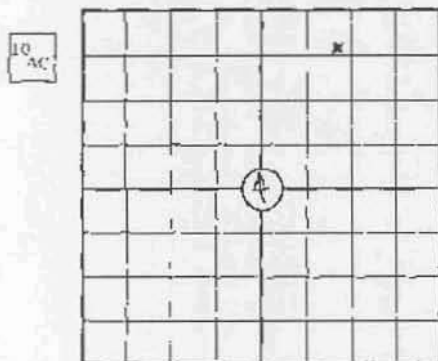
13. RECONDITIONING WORK

Date Completed: _____
☐ Replace Casing From _____ ft. To _____ ft.
☐ Replaced Screen From _____ ft. To _____ ft.
Deepened Well From _____ ft. To _____ ft.
Redeveloped Well By _____

14. CERTIFICATION

The work described above was done under my supervision, and this report is true and correct to the best of my knowledge.

11. PLAT



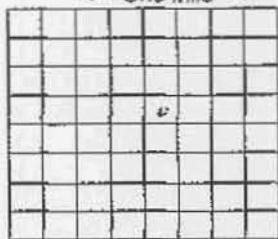
NE 1/4 of NW 1/4 of NE 1/4 of SEC 4
TWP. 14 N. RGE. 19 E. (Circle One)
EIM. 23576

12. PUMP INFORMATION

Please Plot Well Location



← One Mile →



MULTI-PURPOSE COMPLETION REPORT GROUNDWATER WELLS

Oklahoma Water Resources Board
3800 North Classen Boulevard
Oklahoma City, OK 73118
Telephone (405) 530-8800

75091
RECEIVED

JAN 10 2003

Oklahoma Water Resources Board

LEGAL DESCRIPTION

DO NOT WRITE IN THIS SPACE

SW 1/4 SW 1/4 NE 1/4

of Sec. 5 Twp. 14N Rge. 19E

OPTIONAL INFORMATION

Latitude _____ Longitude _____

County MUSKOGEE Well No. _____

Well Owner SYD, INC Phone 918-557-6440

Address/City/State/Zip RT 3 BOX 835 CHECOTAH, OK 74426

Finding Location 1 mile west of Muskogee Turnpike on Peak Blvd. On South side of Muskogee. Turn
Auto auction on south side of Peak Blvd, well is 450' east of Auto auction building.

TYPE OF WORK

- ☐ Groundwater Well Test Hole
☐ Fresh Water Obs. Well
☒ Groundwater Well
☐ Plugging

- ☐ De-Watering Well
☐ Groundwater Heat Pump Well
☐ Other _____

GROUNDWATER WELL USE

- ☒ Domestic/Stock ☐ Agriculture
☐ Industrial ☐ Commercial
☐ Public Water Supply ☐ Other _____
☐ Irrigation

NEW BORING OR WELL CONSTRUCTION DATA

* Use additional sheets of paper if there are not enough spaces for all well construction information.

Date Started 12-18-02 Date Completed 12-16-02

Type of Construction ☒ Open Hole ☒ Cased Hole

Hole Diameter 9 5/8 inches From 0 feet to 22 feet

Hole Diameter 6 1/8 inches From 22 feet to 200 feet

CASING RECORD:

Surface Pipe (Casing Diameter) 6 5/8 inches From 0 feet to 22 feet

Well Casing Diameter _____ inches From _____ feet to _____ feet

SCREEN OR PERFORATION RECORD: N/A

Type and Slot Size _____ From _____ feet to _____ feet

Type and Slot Size _____ From _____ feet to _____ feet

FILTER PACK: N/A

Type and Size _____ From _____ feet to _____ feet

Type and Size _____ From _____ feet to _____ feet

SEAL:

Type of Surface Seal Cement From 0 feet to 22 feet

TYPE OF COMPLETION: N/A ☐ Above Ground ☐ Pitless Adaptor

HYDROLOGIC DATA

75091

Depth of water at time of drilling N/A Estimated yield of well gpmDrawdown Pumping Test: Depth of water before start of test was feet. Well was pumped/
bailed at hours, which resulted in a drawdown depth to water of feet.

LITHOLOGIC LOG

MATERIAL (indicate with a \checkmark if zone is saturated.)	ENCOUNTERED		MATERIAL (indicate with a \checkmark if zone is saturated.)	ENCOUNTERED	
	From (feet)	To (feet)		From (feet)	To (feet)
OB CLAY	0	10			
SHALE	10	72			
SAND SHALE	72	46			
SHALE	76	132			
SAND LIME	132	136			
SHALE	136	152			
SAND LIME	152	164			
SHALE	164	200			

WELL LOCATION

Are there any structures within 300 feet of the well? ☐ yes ☒ noDistance from the nearest possible source of pollution. (A minimum of 50 feet is required if the well is up-gradient,
75 feet if the well is level, and 100 feet if the well is down-gradient.)Distance feet from type or source Location of source from well: ☐ Up-Gradient ☐ Level ☐ Down-GradientHas this well been disinfected after completion of work? ☒ Yes ☐ NoIf this well is a replacement well, has old well been abandoned properly? ☐ Yes ☐ NoPLUGGING DATA N/ADate Plugged Tremied? ☐ Yes ☐ NoBackfilled From feet to feet with Grouted From feet to feet with Cement Grouted from feet to feet.

CERTIFICATION

The work described above was done under my supervision. This report is correct to the best of my knowledge

Firm Name Venture Drilling Inc.D/PC No. 0215Operator Name Rick DismangOP No. 0928Address 4611 South Muskogee Ave. Tahlequah, OK 74464Phone (918) 456-8119

Rick Dismang
Signature

Date 12-28-02



MULTI-PURPOSE WELL COMPLETION & PLUGGING REPORT

Oklahoma Water Resources Board
3800 North Classen Boulevard
Oklahoma City, OK 73118
Telephone (405) 530-8800

Legal Location
North

X									

«———— One Mile —————»
Each square is 10-acres

WELL ID NUMBER: 86618

Quarters NE-NW-NW

Section 05

Township 14N

Range 19E1

Latitude 35.7256667

Longitude -95.3185

Date collected(latitude and longitude), if different from date the well was drilled: 11/23/2003

Method latitude and longitude was collected: GPS - uncorrected data

County Muskogee

Variance Request No. (if applicable) n/a

WELL OWNER - NAME AND ADDRESS

Well Owner Jeana Mackey

Phone (918) 683-3059

Address/City/State 3701 E Hancock Muskogee OK

Zip 74401

Finding Location _____

Well Name _____

Water Rights #: _____

TYPE OF WORK: Groundwater Well

USE OF WELL: Domestic

NEW WELL CONSTRUCTION DATA

Date Well or Boring Was Completed 11/26/2003

Number of wells or borings represented by this log 2

* (Borings are within the same 10 acre-tract and with the same general depths and lithologies)

Hole Diameter 9.625 inches to a depth of 21 ft.

Hole Diameter 6.125 inches to a depth of 500 ft.

CASING INFORMATION *Note: If surface casing is used please indicate that on the appropriate well casing information line.

Surface Pipe Material: Other Surface Pipe Diameter 6.258 inches Surface Pipe From 0 ft to 21 ft

SCREEN OR PERFORATION INFORMATION

FILTER PACK INFORMATIONFilter Pack Material:

86618

WELL SEAL INFORMATIONType of Surface Seal Cement GroutSurface Seal Interval: From 0 ft to 21 ftType of Annular Seal n/aAnnular Seal Interval: From n/a ft to n/a ftFilter Pack Seal Material n/aFilter Pack Seal Interval: From n/a ft to n/a ft**TYPE OF COMPLETION:** **HYDROLOGIC INFORMATION**Depth to water at time of drilling ftEstimated yield of well 1 gpmFirst water zone ft**LITHOLOGY DESCRIPTION**

MATERIAL	ENCOUNTERED		SATURATED
	FROM (ft.)	TO (ft.)	
None	0	500	N

WELL LOCATION TO POTENTIAL SOURCES OF POLLUTIONHas this well been disinfected after completion of work? n/aAre there any potential sources of pollution or wastewater lagoons within 300 ft. of the well? n/aDistance of Well is n/a from possible source. Type of possible source: n/a**PLUGGING INFORMATION**Date Well or Boring Was Plugged n/aTotal Depth of well being plugged ft.Was the well contaminated or was it plugged as though it was contaminated? n/aIf the well or boring was plugged as if it was contaminated, was the casing removed or perforated? n/aWas the grout tremied? n/aBackfilled with n/aBackfilled from ft. to ft.Grouted with n/aGrouted from ft. to ft.Grouted with CementGrouted from ft. to ft.Firm Name Venture Drilling, Inc.D/PC No. DPC-0215Operator Name DISMANG, RICKIOP No. OP-0928Date 12/12/2003Comments: n/a

No Results

We have completed the water well search within your area of interest, '18, 14N, 19E1' in Oklahoma and no water wells records were found in this area.

This search does not necessarily contain information about all of the water wells within the area of interest. The multi-purpose well completion report database consists of information submitted to the Board for all well data reported by licensed firms since 1982 and monitoring well data reported since 1988. There could be other wells in the area, which are not included in our database. Wells drilled prior to the licensing requirements for well drillers would not necessarily have had a well log submitted to the OWRB. A field survey may need to be conducted to verify the presence or absence of other water wells.

The Oklahoma Water Resources Board does not guarantee the accuracy of the data shown in the well completion records. Data entered into the database are as reported by the well drillers and much of the data have not been field verified for accuracy. If any errors in the records are discovered, please bring them to our attention so that corrections to the database may be made.

[contact OWRB](#) | [disclaimer](#)

Visit YourOklahoma.com, the Oklahoma State Portal

©1998-2003, Oklahoma Water Resources Board

Reference 17

Oklahoma QuickFacts

Muskogee County, Oklahoma

People QuickFacts	Muskogee County	Oklahoma
Population, 2003 estimate	70,255	3,511,532
Population, percent change, April 1, 2000 to July 1, 2003	1.2%	1.8%
Population, 2000	69,451	3,450,654
Population, percent change, 1990 to 2000	2.0%	9.7%
Persons under 5 years old, percent, 2000	7.0%	6.8%
Persons under 18 years old, percent, 2000	25.9%	25.9%
Persons 65 years old and over, percent, 2000	15.3%	13.2%
Female persons, percent, 2000	51.7%	50.9%
White persons, percent, 2000 (a)	63.7%	76.2%
Black or African American persons, percent, 2000 (a)	13.2%	7.6%
American Indian and Alaska Native persons, percent, 2000 (a)	14.9%	7.9%
Asian persons, percent, 2000 (a)	0.6%	1.4%
Native Hawaiian and Other Pacific Islander, percent, 2000 (a)	Z	0.1%
Persons reporting some other race, percent, 2000 (a)	1.2%	2.4%
Persons reporting two or more races, percent, 2000	6.4%	4.5%
Persons of Hispanic or Latino origin, percent, 2000 (b)	2.7%	5.2%
White persons, not of Hispanic/Latino origin, percent, 2000	62.8%	74.1%
Living in same house in 1995 and 2000', pct age 5+, 2000	53.9%	51.3%
Foreign born persons, percent, 2000	1.8%	3.8%
Language other than English spoken at home, pct age 5+, 2000	4.7%	7.4%
High school graduates, percent of persons age 25+, 2000	75.1%	80.6%
Bachelor's degree or higher, pct of persons age 25+, 2000	15.4%	20.3%
Persons with a disability, age 5+, 2000	16,781	676,098
Mean travel time to work (minutes), workers age 16+, 2000	21.7	21.7
Housing units, 2002	29,966	1,541,518
Homeownership rate, 2000	69.6%	68.4%
Housing units in multi-unit structures, percent, 2000	13.1%	15.2%
Median value of owner-occupied housing units, 2000	\$57,700	\$70,700
Households, 2000	26,458	1,342,293
Persons per household, 2000	2.51	2.49
Median household income, 1999	\$28,438	\$33,400
Per capita money income, 1999	\$14,828	\$17,646

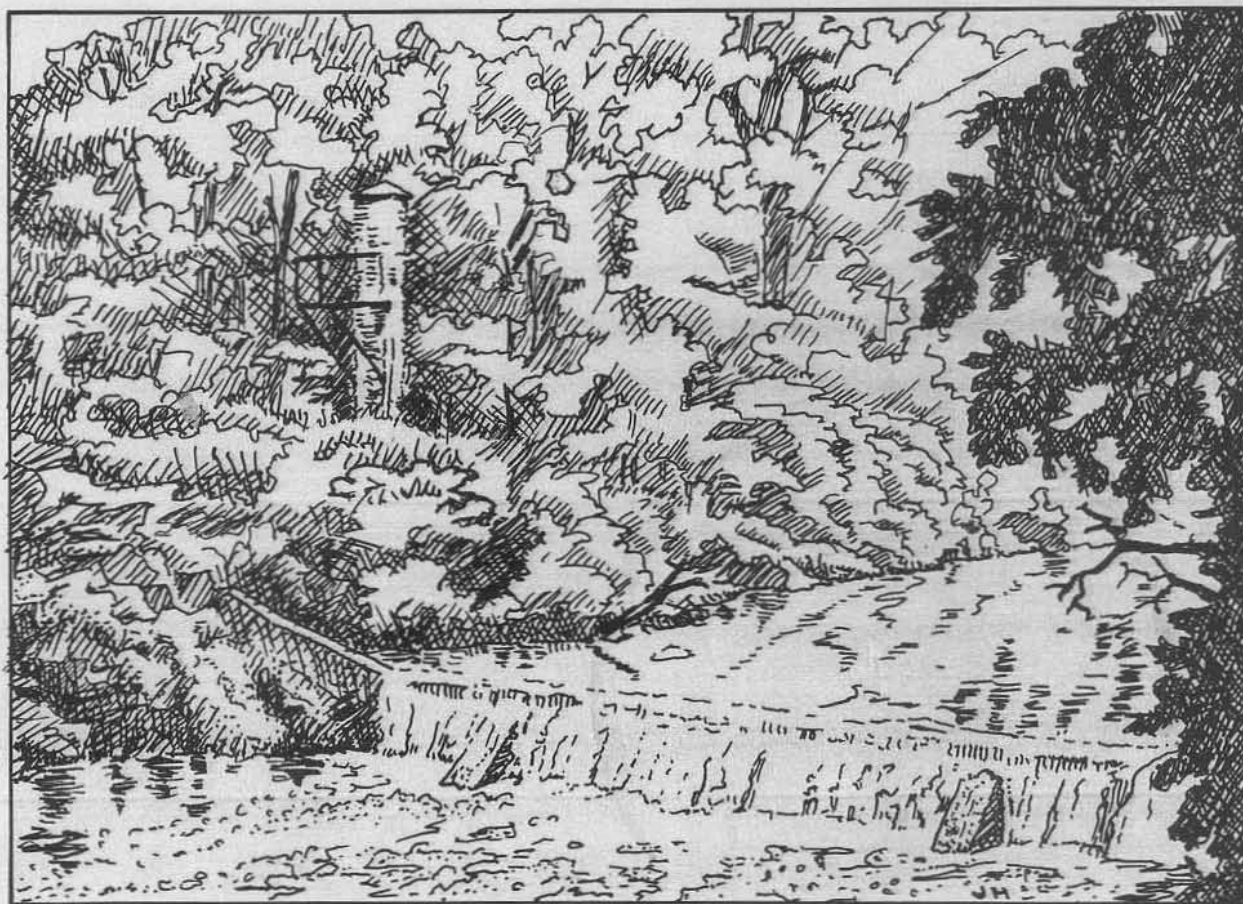
Reference 18

STATISTICAL SUMMARIES OF STREAMFLOW RECORDS IN OKLAHOMA AND PARTS OF ARKANSAS, KANSAS, MISSOURI, AND TEXAS THROUGH 1984

RECEIVED
SEP 26 1988
Waste Management Services

U.S. GEOLOGICAL SURVEY

Water-Resources Investigations Report 87-4205



Old gage, Council Creek at Stillwater, Oklahoma

Prepared in cooperation with the
OKLAHOMA WATER RESOURCES BOARD



STATISTICAL SUMMARIES OF STREAMFLOW RECORDS IN OKLAHOMA AND PARTS OF ARKANSAS, MISSOURI, AND TEXAS THROUGH 1984

RECEIVED
SEP 26 1988
Waste Management Service

By David C. Heimann and Robert L. Tortorelli

U.S. GEOLOGICAL SURVEY
Water-Resources Investigations Report 87-4205

Prepared in cooperation with the
OKLAHOMA WATER RESOURCES BOARD



Oklahoma City, Oklahoma
1988

ARKANSAS RIVER BASIN

07194500 ARKANSAS RIVER NEAR MUSKOGEE, OK

LOCATION.--Lat 35°46'10", long 95°17'55", in NW 1/4 sec.21, T.15 N., R.19 E., on downstream side of left pier of bridge on U.S. Highway 62, 1.7 mi downstream from Neosho River, 3.5 mi northeast of Muskogee, and at mile 457.8.

DRAINAGE AREA.--96,674 mi² of which 12,541 mi² is probably noncontributing.

PERIOD OF RECORD.-- October 1925 to September 1970.

REMARKS.--Some regulation since 1940 by Grand Lake; further regulation since 1941 by Great Salt Plains Lake, and since 1951 by Hulah Lake. Flow regulated since 1953 by Fort Gibson Lake.

STREAMFLOW UNREGULATED

MONTHLY AND ANNUAL MEAN DISCHARGES 1926-52

MAGNITUDE AND PROBABILITY OF ANNUAL LOW FLOW
BASED ON PERIOD OF RECORD 1927-52

MONTH	MAXIMUM (CFS)	MINIMUM (CFS)	MEAN (CFS)	STAN- DARD DEVI- ATION (CFS)	COEFFI- CIENT OF VARI- ATION	PERCENT OF ANNUAL RUNOFF	PERIOD (CON- SEC- UTIVE DAYS)	DISCHARGE, IN CFS, FOR INDICATED RECURRENCE INTERVAL, IN YEARS, AND NON-EXCEEDANCE PROBABILITY, IN PERCENT			
								2 50%	5 20%	10 10%	20 5%
OCTOBER	115000	636	19200	28400	1.5	7.4					
NOVEMBER	81500	674	13600	16300	1.2	5.2					
DECEMBER	30800	744	9960	7750	0.78	3.8	1	1870	868	530	335
JANUARY	30200	618	11800	9250	0.78	4.6	3	2020	905	544	340
FEBRUARY	77200	1180	14100	14400	1.0	5.4	7	2180	950	571	359
MARCH	61900	1380	16600	14000	0.84	6.4	14	2350	1000	604	386
APRIL	176000	1790	38700	45500	1.2	14.9	30	2800	1200	729	469
MAY	210000	4400	42300	42800	1.0	16.3	60	3400	1590	1040	713
JUNE	156000	3410	40900	32500	0.80	15.8	90	4690	2280	1510	1050
JULY	167000	873	23500	35400	1.5	9.1	120	5990	2930	1920	1320
AUGUST	77600	532	14100	19900	1.4	5.5	183	8910	4260	2730	1830
SEPTEMBER	45700	1060	14400	13100	0.91	5.5					
ANNUAL	45900	4200	21600	11800	0.55	100					

MAGNITUDE AND PROBABILITY OF ANNUAL HIGH FLOW
BASED ON PERIOD OF RECORD 1926-52

MAGNITUDE AND PROBABILITY OF INSTANTANEOUS PEAK FLOW
BASED ON 27 YEARS OF RECORD

DISCHARGE, IN CFS, FOR INDICATED RECURRENCE INTERVAL IN YEARS, AND EXCEEDANCE PROBABILITY, IN PERCENT						PERIOD (CON- SEC- UTIVE DAYS)	DISCHARGE, IN CFS, FOR INDICATED RECURRENCE INTERVAL, IN YEARS, AND EXCEEDANCE PROBABILITY, IN PERCENT					
2 50%	5 20%	10 10%	25 4%	50 2%	100 1%		2 50%	5 20%	10 10%	25 4%	50 2%	100 1%
168000	256000	317000	394000	452000	510000	1	167000	267000	341000	439000	517000	597000
						3	154000	253000	325000	422000	498000	576000
						7	130000	224000	290000	377000	442000	507000
						15	101000	180000	237000	309000	363000	416000
						30	73300	136000	183000	244000	291000	338000
						60	53000	95100	125000	162000	190000	217000
						90	41600	73400	95500	124000	144000	164000

WATER RESOURCES COUNCIL WEIGHTED SKEW = -0.204

DURATION TABLE OF DAILY MEAN FLOW FOR PERIOD OF RECORD 1926-52

DISCHARGE, IN CFS, WHICH WAS EQUALED OR EXCEEDED FOR INDICATED PERCENT OF TIME																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
188000	97600	55500	36000	26400	16700	11800	8690	6520	4810	3500	2240	1340	733	576	445	230

Reference 19

NATIONAL FLOOD INSURANCE PROGRAM

FIRM *B42*
FLOOD INSURANCE RATE MAP

**MUSKOGEE COUNTY,
OKLAHOMA AND
INCORPORATED AREAS**

PANEL 126 OF 350

(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS:

<u>COMMUNITY</u>	<u>NUMBER</u>	<u>PANEL</u>	<u>SUFFIX</u>
MUSKOGEE, CITY OF	400125	0126	D
UNINCORPORATED AREAS	400491	0126	D



Received **MAP NUMBER**

JUN 24 2002 **40101C0126 D**








EFFECTIVE DATE:
MARCH 4, 1991



Federal Emergency Management Agency


LEGEND

SPECIAL FLOOD HAZARD AREAS INUNDATED BY 100-YEAR FLOOD



-  **ZONE A** No base flood elevations determined.
-  **ZONE AE** Base flood elevations determined.
-  **ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); base flood elevations determined.
-  **ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding; velocities also determined.
-  **ZONE A99** To be protected from 100-year flood by Federal flood protection system under construction; no base flood elevations determined.
-  **ZONE V** Coastal flood with velocity hazard (wave action); no base flood elevations determined.
-  **ZONE VE** Coastal flood with velocity hazard (wave action); base flood elevations determined.

FLOODWAY AREAS IN ZONE AE










OTHER FLOOD AREAS

-  **ZONE X** Areas of 500-year flood; areas of 100-year flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 100-year flood.

OTHER AREAS

-  **ZONE X** Areas determined to be outside 500-year floodplain.
-  **ZONE D** Areas in which flood hazards are undetermined.

UNDEVELOPED COASTAL BARRIERS

-  Floodplain Boundary
-  Floodway Boundary
-  Zone D Boundary
-  Boundary Dividing Special Flood Hazard Zones, and Boundary Dividing Areas of Different Coastal Base Flood Elevations Within Special Flood Hazard Zones.
-  Base Flood Elevation Line; Elevation in Feet*
-  Cross Section Line
-  Base Flood Elevation in Feet Where Uniform Within Zone*
-  Elevation Reference Mark
-  River Mile

*Referenced to the National Geodetic Vertical Datum of 1929

NOTES

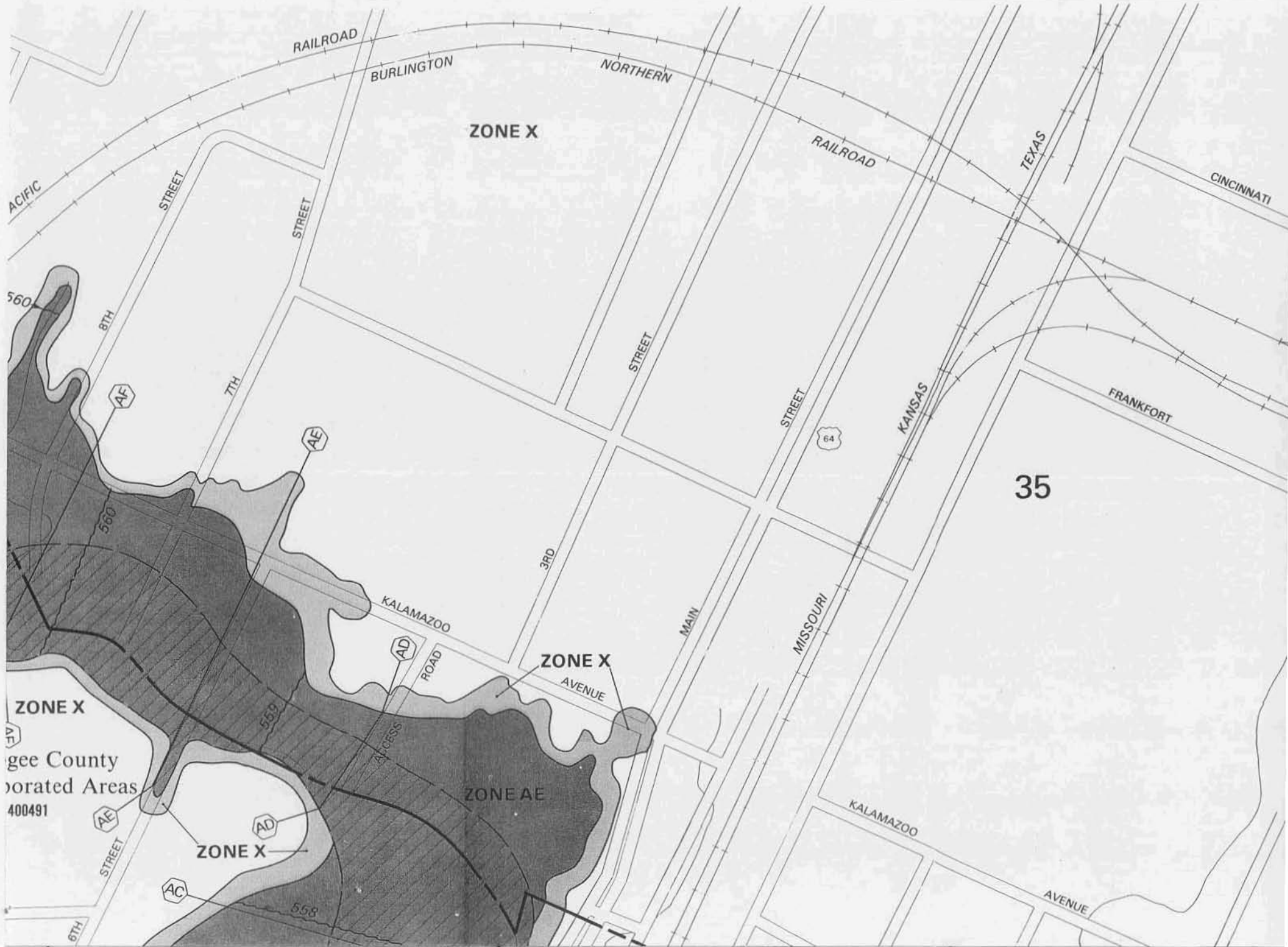
This map is for use in administering the National Flood Insurance Program; it does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size, or all planimetric features outside Special Flood Hazard Areas. The community map repository should be consulted for possible updated flood hazard information prior to use of this map for property purchase or construction purposes.

Coastal base flood elevations apply only landward of 0.0 NGVD, and include the effects of wave action; these elevations may also differ significantly from those developed by the National Weather Service for hurricane evacuation planning.

Special flood hazard (100-year flood) include Zones A, AE, AH, AO, A99, and VE.

Areas not in Special Flood Hazard Areas may be protected by flood control structures.

Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations.



Info

Scale 20 60

?

Help

1:1

MAX

Make a FIRMette

12

Muskogee County
Incorporated Areas
400491

**MUSKOGEE COUNTY,
OKLAHOMA AND
INCORPORATED AREAS**

PANEL 128 OF 350
(SEE MAP INDEX FOR PANELS NOT PRINTED)

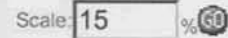
CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
MUSKOGEE CITY OF	400125	0126	0
UNINCORPORATED AREAS	400491	0127	0

PANEL LOCATION

MAP NUMBER
40101C0128 D

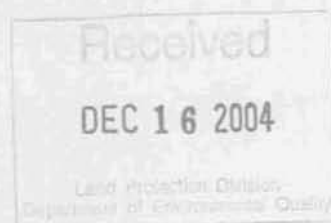
EFFECTIVE DATE:
MARCH 4, 1991



Reference 20

Attention: Aron Samwel

Date: December 14, 2004



The attached material is sent to you:

XX In response to your request

 For your information

 Additional information needed






by: Bob Sandbo
Planning and Management Division

Oklahoma Water Resources Board
3800 North Classen
Oklahoma City, Oklahoma 73118
Phone: (405) 530-8800
Fax: (405) 530-8900
www.owrb.state.ok.us

Comments:

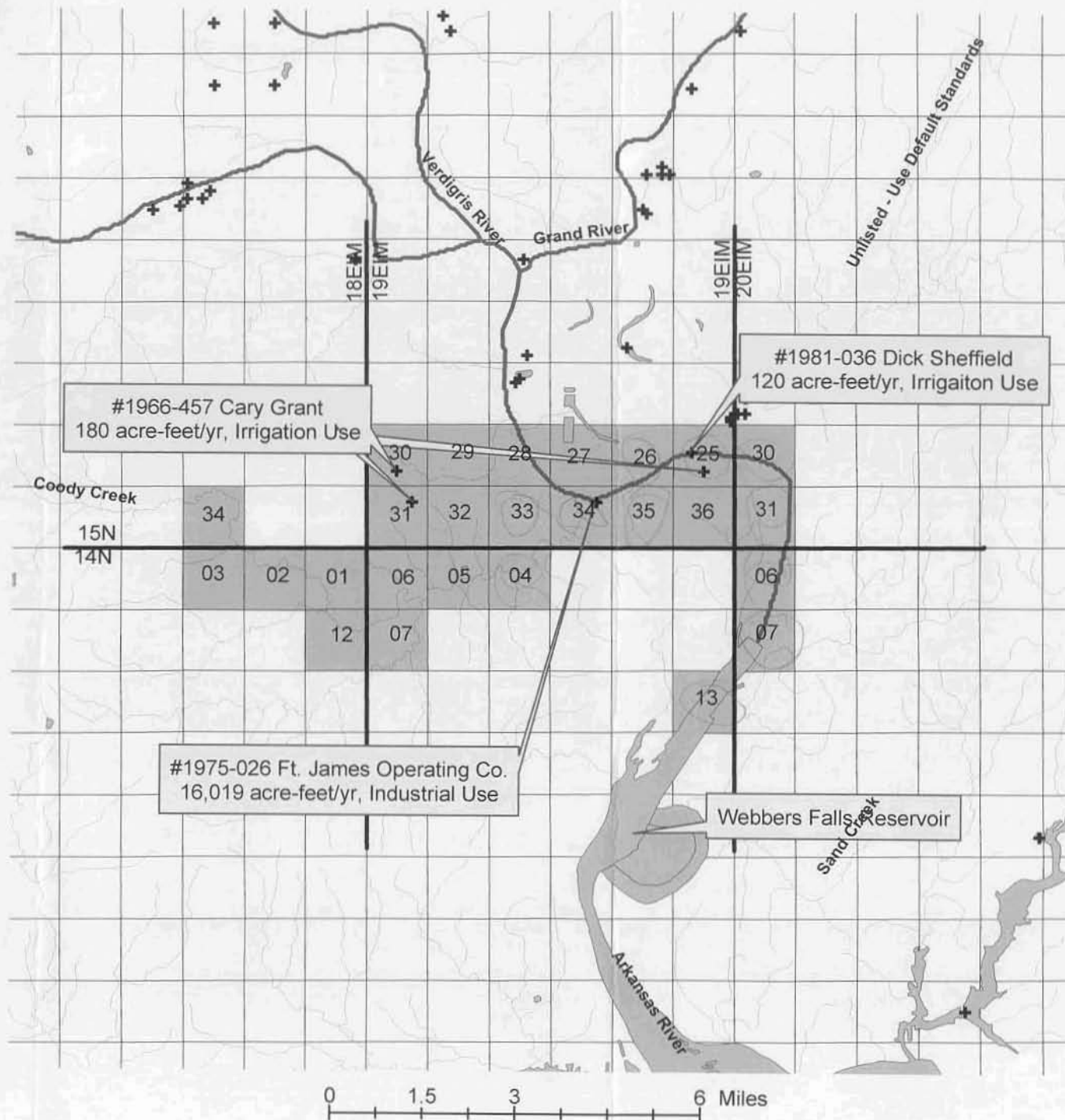
Enclosed is the information you requested regarding possible surface water intakes within the legal location of a PPE and newly extended 15-mile end of the Pure Oil Company site. If you need additional information or have any questions, please feel free to give me a call at the number above.

Pure Oil Company PPE & 15-Mile End of Site

- + SW Permitted Diversions
-  Lakes
-  Major Rivers
-  Streams - Full Detail
-  Section Lines
-  15-Mile Selection



Created by: Bob Sandbo
Oklahoma Water Resources Board
December 14, 2004





RECEIVED

DEC 14 2004

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

Oklahoma Water Resources Board

BRAD HENRY
Governor

December 10, 2004

Bob Sandbo
Planning and Management Division
Oklahoma Water Resources Board
3800 N. Classen
Oklahoma City, Oklahoma 73118

Dear Mr. Sandbo:

The purpose of resending this letter is because the site area has increased. Information regarding surface water intakes that may be located within newly extended 15 miles downstream from the point of entry (PPE) into perennial waters is requested. Enclosed is the legal location of a **PPE** and the newly extended **15-mile end** of a site. The information provided by your office will be used to partly describe surface water targets in CERCLA Preliminary Assessments that will be conducted by the DEQ (Site Assessment Unit), as authorized by a cooperative agreement with the U. S. Environmental Protection Agency.

Your assistance is greatly appreciated. If you have any questions, please call me at 702-5123.

Sincerely,

A. Samwel

Aron Samwel
Environmental Programs Specialist II
Site Assessment Unit
Land Protection Division

Attachment



SITE NAME	SECTIONS	TOWNSHIP	RANGE	COUNTY
Pure Oil Company	34	15N	18E	Muskogee
Pure Oil Company	1-3, 12	14N	18E	Muskogee
Pure Oil Company	4-7, 13	14N	19E	Muskogee
Pure Oil Company	25-36, 33-35	15N	19E	Muskogee
Pure Oil Company	30-31	15N	20E	Muskogee
Pure Oil Company	6-7	14N	20E	Muskogee

RECEIVED

DEC 14 2004

Oklahoma Water Resources Board

Reference 21

WILDLIFE CONSERVATION COMMISSION

Bruce Mabrey
CHAIRMAN
Bill Phelps
VICE CHAIRMAN
John D. Groendyke
SECRETARY
Mac Maguire
MEMBER

John S. "Jack" Zink
MEMBER
Harland Stonecipher
MEMBER
Lewis Stiles
MEMBER
Wade Brinkman
MEMBER



BRAD HENRY, GOVERNOR

GREG D. DUFFY, DIRECTOR

DEPARTMENT OF WILDLIFE CONSERVATION

1801 N. Lincoln

P.O. Box 53465

Oklahoma City, OK 73152

PH. 521-3851

January 19, 2005



Aron Samwel
Oklahoma Department of Environmental Quality
707 North Robinson
PO Box 1677
Oklahoma City, OK 73101-1677

RE: CERCLA Preliminary Assessment for Pure Oil Company

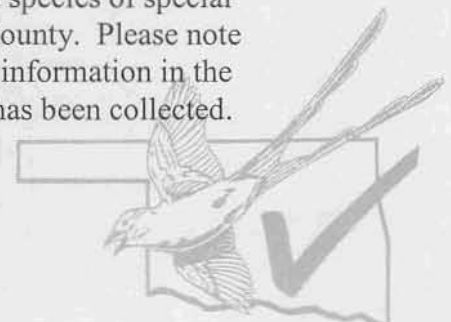
Dear Ms. Samwel,

The is in response to your letter of December 10, 2004 requesting information regarding endangered or threatened species and associated resources within a 4 mile radius of the site. The site extends 15 miles downstream of the surface water entry (PPE) in Muskogee County, Oklahoma. Table 1 reflects the legal description of each site.

Table 1. Table describing legal locations of each site

Site Name	Sections	Township	Range	County
1	8-36	15N	18E	Muskogee
2	7,17-20, 25-26, 28-35	15N	19E	Muskogee
3	30-31	15N	20E	Muskogee
4	1-17,21-24	14N	18E	Muskogee
5	4-8, 13,18	14N	19E	Muskogee
6	6-7	14N	20E	Muskogee

Please understand that due to time and personnel constraints, the Oklahoma Department of wildlife Conservation (ODWC) has not performed an actual field survey of the proposed location, but have reviewed maps and other resources on which to base the assessment. Table 2 is a list of threatened (T), endangered (E) and species of special concern (SS1 and SS2) that have been known to occur in Muskogee County. Please note that the rare species report provided to you is based solely on existing information in the database. Such a database is only as complete as the information that has been collected. Code explanations are given below:



T=Threatened

E=Endangered

SS2= Species of Special Concern Category II-a species identified by technical experts as possibly threatened or vulnerable to extirpation but for which additional information is needed.

SS1=A species that current evidence indicates is especially vulnerable to extirpation because of limited range, low population, or other factors.

Table 2. List of sensitive species for the Legal locations given in Table 1

Common Name	Scientific Name	Status
American Burying Beetle	<i>Nicrophorus americanus</i>	E; confirmed sightings
Interior Least Tern	<i>Sterna antillarum</i>	E
Whooping Crane	<i>Grus americana</i>	E
Bald Eagle	<i>Haliaeetus leucocephalus</i>	T
Piping Plover	<i>Charadrius melodus</i>	T
Alligator Snapping Turtle	<i>Macrolemys temminckii</i>	SS2
River Otter	<i>Lutra Canadensis</i>	SS2
Arkansas River Shiner	<i>Notropis girardi</i>	T (historical occurrence)
Woodchuck	<i>Marmota monax</i>	SS2
Golden Eagle	<i>Aquila chrysaetos</i>	SS1

For additional information on federally listed threatened or endangered species and locations, contact the USFWS, Ecological Services, 222 South Houston, Suite A, Tulsa, Ok. 74127 or online at <http://ifw2es.fws.gov/Oklahoma/endsp.htm>. For additional information on Oklahoma State listed and sensitive species, we recommend that you contact the Oklahoma Natural Heritage Inventory, 111 E. Chesapeake Street, Norman, Ok. 73019 or online at <http://www.biosurvey.ou.edu/heritage/onhi.html>. The ODWC coordinates its efforts with both of these agencies on a regular basis in response to projects that undergo the NEPA process and support their findings, recommendations and requirements.

Since specifics of the project were not provided, the ODWC is unable to provide an assessment of potential impacts to fish and other wildlife. Once this information is made available, the ODWC can provide the ODEQ with further analysis of positive and/or negative consequences resulting from the project. If you should have questions or concerns, please do not hesitate to contact the Natural Resources Section at 405-521-4663.

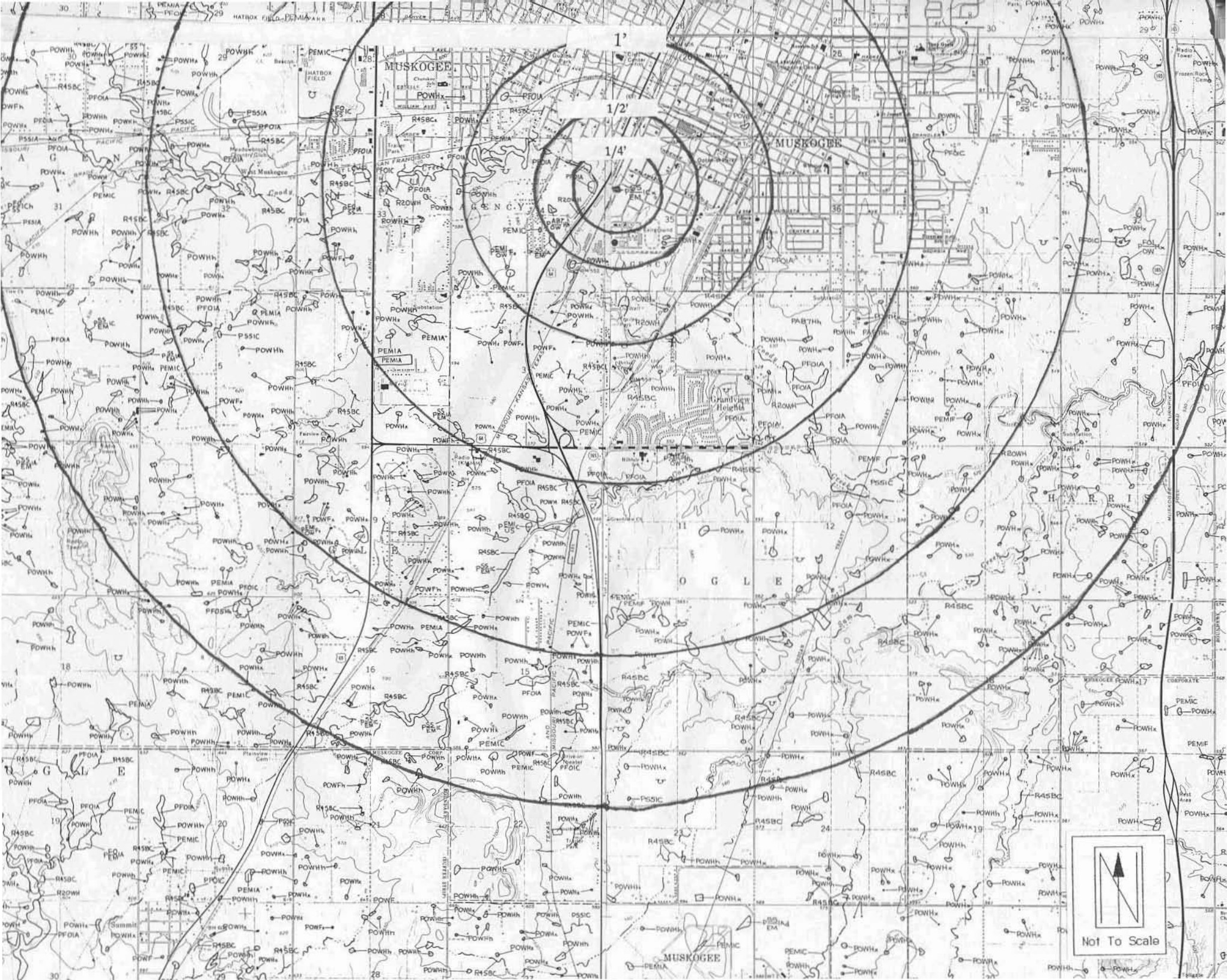
Sincerely,

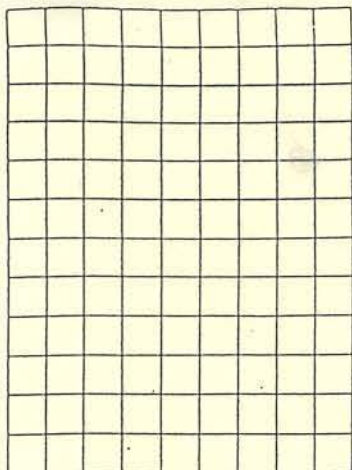


Ferrella March
Natural Resources Biologist

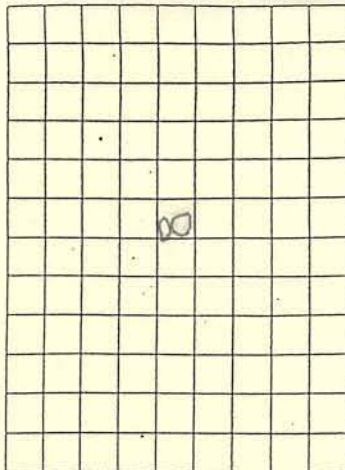
Reference 22



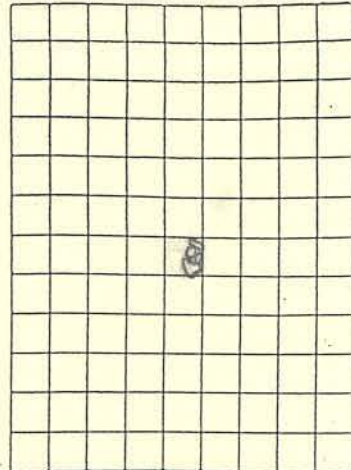




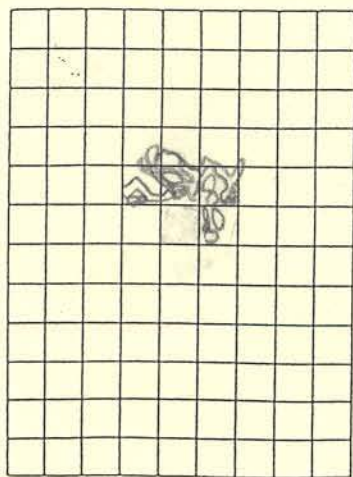
On-site



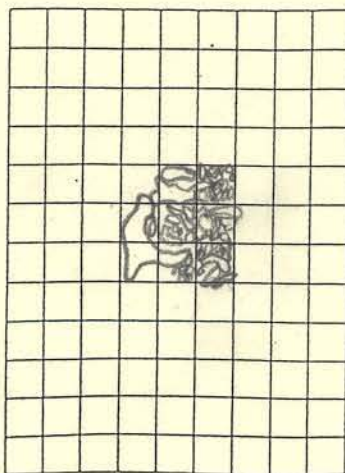
0 - $\frac{1}{4}$ mi.



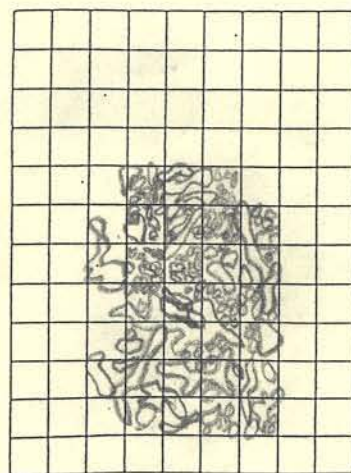
$\frac{1}{4}$ - $\frac{1}{2}$ mi.



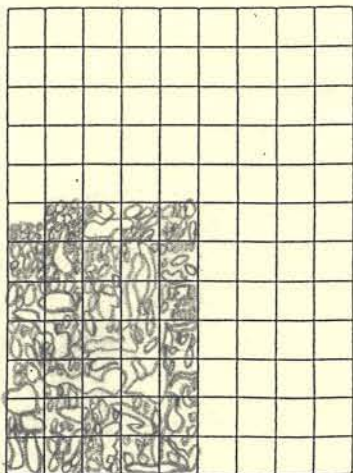
$\frac{1}{2}$ - 1 mi.



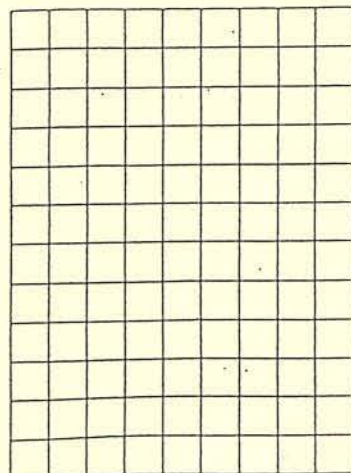
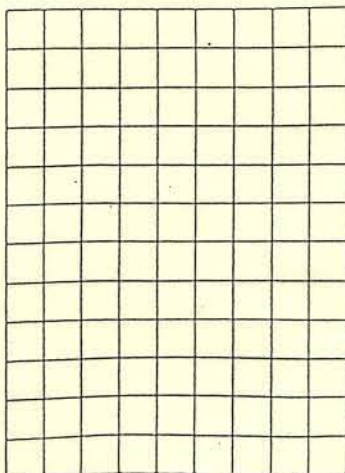
1 - 2 mi.



2 - 3 mi.



3 - 4 mi.



SITE NAME: Pure Oil Company

DATE COMPLETED: 11-19-04

COMPILED BY: A. Samwel

$\frac{1}{2}$ cm² = 10 acres